

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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Accounting

ACCTG 001-Introductory Accounting I (UC/CSU) - 5 Units

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.

12630	LEC	8:35 am - 11:05 am	TTh	Brumell, B R	C4-208
28288	LEC	8:35 am - 11:05 am	TTh	STAFF, L	C4-208
12657	LEC	6:00 pm - 8:30 pm	MW	Baltayan, A	C4-208

ACCTG 002-Introductory Accounting II (UC/CSU) - 5 Units

Enrollment Requirement: Prerequisite: ACCTG 001

This course will cover managerial and cost accounting topics including cost terms, cost behavior and cost systems as well as the use of accounting data for planning, budgeting, and control.

13852	LEC	8:35 am - 11:05 am	MW	Preciado-Garcia, S	C4-208
21559	LEC	6:00 pm - 8:30 pm	TTh	Baltayan, A	C4-208

ACCTG 015-Tax Accounting I (CSU) - 3 Units

This course is a study of income taxes as they apply to individuals and sole-proprietorships.

21560	LEC	9:00 am - 12:10 pm	Sa	Ho, F K	C4-208
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ACCTG 021-Bookkeeping And Accounting I (UC/CSU) - 3 Units

This course covers the basic accounting cycle including adjusting entries and closing entries as well as preparing basic financial statements.

14136	LEC	9:00 am - 12:10 pm	F	STAFF, L	C4-208
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Administration Of Justice

ADM JUS 001-Introduction To Administration Of Justice (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4H CSU D8

Philosophy, history, and theories of the criminal justice system, including the roles and functions of the local, state, and federal jurisdictions. Theories, functions, and interrelationships among criminal justice agencies; law enforcement, courts, and corrections; crime causation, correctional theory, analysis and the social impact of crime. The conceptual approach utilized in this course recognizes that criminal justice is itself a distinct academic discipline rather than an interdisciplinary course of study.

14928	LEC	6:00 pm - 9:10 pm	W	Stapleton, C O	C4-258
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ADM JUS 002-Concepts Of Criminal Law (UC/CSU) - 3 Units

An introduction to the historical development, philosophy, and basic legal concepts of criminal law. The course includes an examination of constitutional provisions, legal research, legal analysis, and the functioning of criminal law as a social force. It also includes a detailed examination of legal definitions, classifications of law, penalties, corpus delicti, criminal intent, parties to a crime, defenses to crime, and a brief introduction to laws of arrest and judicial procedure.

20540	LEC	6:00 pm - 9:10 pm	Th	Katz, S J	C4-258
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Open to all

ADM JUS 008-Juvenile Procedures (CSU) - 3 Units

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This course covers the juvenile system and related juvenile justice issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, history, theories, methodology, and special areas and laws unique to juveniles.

15414	LEC	6:00 pm - 9:10 pm	M	Debus, M M	C4-258
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ADM JUS 073-Law And Minority Groups (CSU) - 3 Units

Law And Minority Groups

15544	LEC	6:00 pm - 9:10 pm	T	Jackson, D C	C4-258
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ADM JUS 501-An A To Z Guide To Criminal Justice Careers (CSU) - 3 Units

This course reviews the hot jobs in the criminal justice arena and outlines a method for the student to decide on their career path. Hiring process and interview skills will be explored. Fitness for duty and other physical and physiological characteristics will be discussed. An A to Z guide to Local, State, and Federal Criminal Justice Careers will be presented.

21562	LEC	9:00 am - 12:10 pm	Sa	Leung, J	C4-324
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American Sign Language

A S L 001-American Sign Language I (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 6A CSU C2

American Sign Language I

10388	LEC	8:00 am - 12:05 pm	Sa	Velez, M	F5-208
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10377	LEC	8:35 am - 10:40 am	MW	Velez, M	F5-208
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22540	LEC	3:00 pm - 5:05 pm	TTh	Jones, L F	B3-305
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10408	LEC	5:35 pm - 7:40 pm	MW	Velez, M	F5-208
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A S L 002-American Sign Language II (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 6A 3B CSU C2

Enrollment Requirement: Prerequisite: A S L 001

American Sign Language II

10739	LEC	3:00 pm - 5:05 pm	TTh	Velez, M	F5-208
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A S L 003-American Sign Language III (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 6A 3B CSU C2

Enrollment Requirement: Prerequisite: A S L 002

American Sign Language III

10805	LEC	11:00 am - 1:05 pm	MW	Velez, M	F5-208
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A S L 004-American Sign Language IV (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 6A 3B CSU C2

Enrollment Requirement: Prerequisite: ASL 003

American Sign Language IV

19456	LEC	3:00 pm - 5:05 pm	MW	Jones, L F	B3-305
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A S L 030-Finger Spelling I (CSU) - 1 Unit

Finger Spelling I

10887	LAB	5:35 pm - 7:40 pm	T	Velez, M	F5-208
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Anatomy

ANATOMY 001-Introduction To Human Anatomy (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5B 5C CSU B2 B3

Enrollment Requirement: Prerequisite: BIOLOGY 003 or BIOLOGY 005 or BIOLOGY 006

This course examines the structure of cells, tissues, and organs of these human systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, lymphatic, and reproductive. Dissection and microscopy are used extensively in lab.

13885	LEC	9:35 am - 11:00 am	TTh	STAFF, L	B3-305
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AND

13888	LAB	8:00 am - 9:25 am	TTh	STAFF, L	C4-468
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13918	LEC	8:00 am - 11:10 am	Sa	Sobhanian, S	C4-468
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AND

13930	LAB	11:30 am - 2:40 pm	Sa	Sobhanian, S	C4-468
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13897	LEC	11:30 am - 12:55 pm	TTh	Abdulmalek, S	C4-305
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AND

13905	LAB	1:05 pm - 2:30 pm	TTh	Abdulmalek, S	C4-468
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13944	LEC	1:00 pm - 2:25 pm	MW	STAFF, L	B3 305
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AND

13958	LAB	2:35 pm - 4:00 pm	MW	STAFF, L	C4-468
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19501	LEC	6:00 pm - 7:25 pm	MW	Kuo, Y	C4-468
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AND

19502	LAB	7:35 pm - 9:00 pm	MW	Kuo, Y	C4-468
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Anthropology

ANTHRO 101-Human Biological Evolution (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 5B CSU B2

This course explores the field of physical anthropology emphasizing the evolution of the human species. Topics will include human heredity, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary history through the study of the fossil record and the study of our closest biological relatives, the living monkeys and apes.

11169	LEC	8:35 am - 10:00 am	MW	Huld, P J	F5-315
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11198	LEC	10:10 am - 11:35 am	TTh	Huld, P J	F5-315
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11183	LEC	11:45 am - 1:10 pm	MW	Huld, P J	F5-315
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20541	LEC	1:10 pm - 2:35 pm	TTh	McDowell, P V	B1-223
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Open to all

22717	LEC	1:20 pm - 2:45 pm	TTh	Carter, M J	F5-210
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[Partnerships]

Location: Ortho Magnet HS

11217	LEC	6:00 pm - 9:10 pm	T	Carter, M J	F5-107
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11241	LEC	3:10 hrs/wk	TBA	Huld, P J	ON LINE
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ANTHRO 102-Human Ways Of Life: Cultural Anthropology (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4A CSU D1

Comparative survey of human culture, including the study of human society, language, religion,

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political and economic organization, with examples drawn from contemporary preliterate, peasant, and urban societies.					
12950	LEC	8:35 am - 10:00 am	TTh	Huld, P J F5-315	
12942	LEC	10:10 am - 11:35 am	MW	Huld, P J F5-315	

Architectural Interiors

INT 200-Residential Planning (CSU) - 3 Units

Using sustainable Design strategies, standards and geospatial tools (CAD/BIM/GIS), the student will learn how to participate in the interior design profession as a "viewer and a doer" for the entire life cycle of a building focusing on interior residential planning. Basic concepts will be covered in class to understand the fundamentals variables that determine interior spaces: lights, air, circulation, texture, pattern, geometry, experience, styles, natural resources, energy conservation, form, materials and others. A study is made using a "small house project" layout, livability, functionality, size, orientation, cost, furnishing, equipment, and ornamentation and future inhabitants. The "small house project" is put in context through a brief history of American shelters and their construction types and styles. At this point the student is ready for developing, retrofitting, adding and remodeling the "small house project" including basic interior construction details and finishes. Residential construction problems are explored with an emphasis placed in functional design.

11631	LEC	7:00 am - 9:30 am	T	Lewis, J L	C2-109
AND					
11638	LAB	7:00 am - 9:30 am	Th	Lewis, J L	C2-109

Architecture

ARC 130-History Of Architecture I (UC/CSU) - 2 Units

Requirement Designation: Meets CSU C1

A lecture course in the history and development of architecture from Prehistoric times to the beginning of the Renaissance.

14279	LEC	12:25 pm - 2:30 pm	M	Lewis, J L	C2-107
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ARC 131-History Of Architecture II (UC/CSU) - 2 Units

Requirement Designation: Meets CSU C1

A lecture course in the history and development of architecture from the Renaissance to the present.

14284	LEC	12:25 am - 2:30 am	T	Lewis, J L	C2-107
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ARC 160-Computers For Designers (CSU) - 3 Units

This introductory course will a focus on developing graphic and visual communications skills using digital tools.

14318	LEC	9:00 am - 11:30 am	Sa	Oliva, M	C2-107
AND					
14321	LAB	11:40 am - 2:10 pm	Sa	Oliva, M	C2-107

ARC 172-Architectural Drawing I (CSU) - 3 Units

This is an introductory course covering the preparation of construction drawings for a light framed building.

14423	LEC	9:45 am - 12:15 pm	M	Garcia, M G	C2-107
AND					

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14425	LAB	9:45 am - 12:15 pm	W	Garcia, M G	C2-107

ARC 201-Architectural Design I (UC/CSU) - 3 Units

This design studio uses the architectural design process to develop solutions to building design programs. The design process is viewed through the lens of sustainability.

14522	LEC	7:00 am - 9:30 am	T	Oliva, M	C2-107
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AND

14523	LAB	7:00 am - 9:30 am	Th	Oliva, M	C2-107
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ARC 271-Architectural Drawing III (CSU) - 3 Units

This is an intermediate course covering the design and construction drawings for complex buildings.

14636	LEC	9:45 am - 12:15 pm	T	Oliva, M	C2-109
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AND

14637	LAB	9:45 am - 12:15 pm	Th	Oliva, M	C2-109
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Art

ART 101-Survey Of Art History I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3A CSU C1

An introductory survey of the arts of the Western World from the Prehistoric through the Middle Ages. Please consult local college catalog for further details.

14732	LEC	7:00 am - 8:25 am	MW	Mann, A	F5-401
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14734	LEC	10:10 am - 11:35 am	MW	Eoff, R J	F5-401
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14741	LEC	11:45 am - 1:10 pm	MW	STAFF, L	F5-401
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14748	LEC	6:00 pm - 9:10 pm	M	Mirkovich, M Z	F5-401
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ART 102-Survey Of Art History II (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3A CSU C1

An introductory survey of the arts of the Western World from the Renaissance to the present. Please consult local college catalog for further details.

14917	LEC	8:35 am - 10:00 am	MW	Mann, A	F5-401
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14921	LEC	3:00 pm - 4:25 pm	MW	Mirkovich, M Z	F5-401
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ART 103-Art Appreciation I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3A CSU C1

A general introduction to art that examines works of art through the study of theory, terminology, themes, design principles, media, techniques with an introduction to the visual arts across time and diverse cultures. Please consult local college catalog for further details.

20237	LEC	8:35 am - 10:00 am	TTh	Pinto, C D	F5-113
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15136	LEC	10:10 am - 11:35 am	TTh	Pinto, C D	F5-113
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15131	LEC	1:20 pm - 2:45 pm	MW	Eoff, R J	F5-401
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ART 201-Drawing I (UC/CSU) - 3 Units

Requirement Designation: Meets CSU C1

Enrollment Requirement: Art - Drawing Course Family

Students apply elements and principles of design to the practice of drawing, employing a wide range

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of subject matter, drawing techniques and media. They develop observation-based and technical drawing skills and explore their creative responses to materials and subject matter.

15740	LEC	8:00 am - 10:05 am	T	STAFF, L	F5-401
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AND

15741	LAB	10:15 am - 12:20 pm	T	STAFF, L	F5-401
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ART 300-Introduction To Painting (UC/CSU) - 3 Units

Enrollment Requirement: Art - Water Color & Acrylic Course Family

Introduction to principles, elements, and practices of painting. Focuses on exploration of painting materials, perceptual skills, color theory, paint mixing and technique, as well as creative responses to materials and subject matter. Please consult local college catalog for further details.

16307	LEC	8:00 am - 10:05 am	Th	STAFF, L	F5-401
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AND

16308	LAB	10:15 am - 12:20 pm	Th	STAFF, L	F5-401
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Astronomy

ASTRON 001-Elementary Astronomy (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 5A CSU B1

Students will study of the history of astronomy, celestial motions, the solar system, stellar origins and evolution, nebulae, galaxies and cosmology.

14756	LEC	10:10 am - 11:35 am	TTh	Klee, V	TBA 1
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The first class meeting will be at Los Angeles Trade-Technical College, class will meet at USC for the rest of the semester.

14744	LEC	1:25 pm - 2:50 pm	MW	Khan, M	B3-305
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14770	LEC	5:00 pm - 6:25 pm	MW	Moreno, M A	F5-111
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The first class meeting will be at Los Angeles Trade-Technical College, class will meet at USC for the rest of the semester.

14780	LEC	6:00 pm - 9:10 pm	W	Wilson, J B	B3-305
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28192	LEC	3:10 hrs/wk	TBA	Khan, M	ON LINE
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ASTRON 005-Fundamentals Of Astronomy Laboratory (UC/CSU) - 1 Unit

Requirement Designation: Meets IGETC 5C CSU B3

Enrollment Requirement: Corequisite: ASTRON 001

Using the planetarium and telescopes (as available on campuses) and/or planetarium software, star atlases and planispheres, this class will study the methods used by astronomers to determine the nature of the universe.

15025	LAB	8:00 am - 11:10 am	T	Wilson, J B	C4-305
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15029	LAB	7:00 pm - 8:25 pm	MW	Moreno, M A	F5-107
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The first class meeting will be at Los Angeles Trade-Technical College, class will meet at USC for the rest of the semester.

Automotive Collision Repair

AUTOCOR 112-Auto Body Construction, Repair And Welding Fundamentals - 9 Units

This course covers basic auto body construction types, nomenclature, body adjustments, and repairs. Instruction includes welding on high strength steels, alloys, and plastic composites. Replacement of structural and non-structural auto body components is also covered.

15056	LEC	7:00 am - 8:25 am	MW	Ferre, B E	B1-132
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AND

15059	LAB	7:00 am - 12:40 pm	TTh	Ferre, B E	B1-100
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And	LAB	8:35 am - 12:40 pm	MW	Ferre, B E	B1-100

AUTOCOR 132-Unitized Body Panel, Section, & Frame; Replacement & Alignment - 9 Units

Instruction is given in bolt-on procedures and welding procedures of panel replacements and the use of pulling equipment for proper sheet metal alignment. Students will understand the techniques of outer body panel repairs, replacements, and adjustments. Students will repair, remove and replace steel / aluminum / SMC / plastic body panels, doors, deck lids, bumpers, and hoods. Students will adjust and align panels to manufacturer's specifications. Instruction is given in body section replacement and structural sectioning, including removing and replacing mechanical parts, using manufacturers' body repair manual and I-CAR recommendations. Measuring for cutting and proper alignment of sections is stressed. Students will understand the proper techniques of body/structural sectioning and anti-corrosion protection. Students learn proper frame alignment and the methods of straightening damaged frames and unitized body construction. Students learn to utilize computerized laser beam frame measuring equipment. Body shop practices are also covered.

15063	LEC	12:45 pm - 2:10 pm	MW	Ferre, B E	B1-132
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AND

15068	LAB	12:45 pm - 5:55 pm	TTh	Ferre, B E	B1-132
And	LAB	2:20 pm - 6:45 pm	MW	Ferre, B E	B1-100

AUTOCOR 149-Estimating Body Damage (RPT 3) - 3 Units

Students are taught body repair and computerized estimating collision service management systems. Damage reporting, structural and nonstructural damage analysis, sequencing of inspections and use of collision estimating guides and damage reports are also addressed.

25407	LEC	7:30 am - 8:35 am	Sa	Jakahi, J K	B1-132
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AND

25408	LAB	8:45 am - 3:15 pm	Sa	Jakahi, J K	B1-100
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AUTOCOR 941-Cooperative Education - Automotive Collision Repair - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

20435	LEC	4:15 hrs/wk	TBA	Guerra, J	B1-214
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Automotive Mechanics Tech

AUTORTK 100-Heating And Air Conditioning Systems Theory, Inspection &Rpr - 3 Units

Instruction is offered in the area of (HVAC) heating, ventilation & air conditioning systems, with emphasis on function & testing of heater controls, heater cores, air conditioning compressors, clutch & controls.

20384	LEC	5:30 pm - 6:20 pm	TTh	Goyn, B A	B1-128
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AND

20385	LAB	6:30 pm - 9:40 pm	TTh	Goyn, B A	B1-128
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AUTORTK 113-Drive Train Components Principles And Practices (CSU) - 3 Units

Basic instruction on the construction, function, testing & repair of manual/automatic transmissions and transaxles, clutches and differentials.

15295	LEC	5:30 pm - 6:20 pm	MW	Taba, R A	B1-130
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AND

15297	LAB	6:30 pm - 9:40 pm	MW	Taba, R A	B1-130
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AUTORTK 114-Steering, Suspension, Brakes, Principles And Practices (CSU) - 3 Units

This course provides instruction in the theory, design, principles, diagnostics, and proper system service of automotive brake, suspension, and steering systems.

25670	LEC	7:30 am - 8:35 am	Sa	Venegas, R	B1-120
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AND

25671	LAB	8:45 am - 3:15 pm	Sa	Venegas, R	B1-108
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15335	LEC	5:30 pm - 6:20 pm	MW	Ramirez, J L	B1-120
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AND

15339	LAB	6:30 pm - 9:40 pm	MW	Ramirez, J L	B1-108
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AUTORTK 121-Basic Engine Theory Inspection And Repair (CSU) - 3 Units

This course offers instruction in the types of operating principles and performance characteristics of automotive engines. Applied mathematics and related physics are emphasized throughout the course. Students will disassemble and assemble a complete engine and apply related theory to factory procedures.

10161	LEC	5:30 pm - 6:20 pm	TTh	Uribe, J R	B1-118
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AND

10168	LAB	6:30 pm - 9:40 pm	TTh	Uribe, J R	B1-106
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AUTORTK 122-Electrical/Electronic Systems Theory, Inspection & Repair (CSU) - 3 Units

Instruction on theory, inspection & repair of automotive electronic/electrical systems and components. Emphasis is placed on charging, battery/starting & ignition systems component inspection, diagnosis & repair. This course also offers instruction on electrical wiring diagram analysis.

10358	LEC	5:30 pm - 6:20 pm	MW	Rios, M	B1-128
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AND

10368	LAB	6:30 pm - 9:40 pm	MW	Rios, M	B1-108
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AUTORTK 123-Fuel & Emissions Systems Theory, Inspection & Repair (CSU) - 3 Units

Instruction is offered on engine performance, diagnosis and repair. Emphasis is placed on ignition, fuel, and emission systems. Instruction is offered on related technologies of automotive fuel delivery systems, induction and scavenging systems. The proper use of test equipment and automotive engine evaluation procedures are stressed in this course.

10531	LEC	5:30 pm - 6:20 pm	TTh	Grissett, R P	B1-122
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AND

10537	LAB	6:30 pm - 9:40 pm	TTh	Grissett, R P	B1-108
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AUTORTK 131-Automotive Theory And Repair II (CSU) - 3 Units

Instruction is offered on the areas of advanced emission systems diagnosis, with emphasis on

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diagnosis & repair procedures to prepare vehicles for the State of California smog test. Shop practice is offered on most areas of automotive repairs: engine, transmissions, drivability, brakes, suspension, steering, and automotive accessories.					
10725	LEC	5:30 pm - 6:20 pm	MW	STAFF, L	B1-120
AND					
10728	LAB	6:30 pm - 9:40 pm	MW	STAFF, L	B1-106

AUTORTK 941-Cooperative Education - Automotive And Related Technology (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

10881	LEC	4:25 hrs/wk	TBA	Guerra, J	B1-214
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Baking, Professional

PROFBKG 112-Baking Processes And Theory Of Ingredients - 4 Units

Enrollment Requirement: Corequisite: CLN ART 112

Course Covers the production of quick breads, introduction to puff pastry, laminated dough, and cookies with a emphasis placed on mixing methods. The role of leavening agents, starches, chemical reactions of ingredients and the effect on heat and cold on products. Recipe and menu development, including ingredient selection will be discussed.

16698	LEC	7:00 am - 9:05 am	F		B4-301
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AND

16699	LAB	9:15 am - 3:45 pm	F		B4-315
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PROFBKG 141-Baking Procedures And Theory Of Ingredients III - 6 Units

Enrollment Requirement: Prerequisite: CLN ART 111, CLN ART 112, PROFBKG 112, PROFBKG 121, PROFBKG 122, PROFBKG 131 and PROFBKG 132

This class applies procedures and techniques for preparing advanced decorative bakery items for display in a professional food service facility. Students will prepare and demonstrate various advanced techniques including: Molded and tempered chocolate show pieces, marzipan, nougatine, pastillage, pulled and molded sugar, wedding and other occasional cakes, rolled and poured fondant, and gum paste will be prepared and evaluated.

25496	LEC	1:30 pm - 5:35 pm	Th	True, C B	B4-330
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AND

25497	LAB	6:30 am - 1:50 pm	F	True, C B	B4-315
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Biology

BIOLOGY 003-Introduction To Biology (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5B 5C CSU B2 B3

This course for non-majors examines the fundamental principles of biology with laboratories emphasizing hands-on investigations. Topics include an introduction to evolutionary theory, basic biological chemistry, cell function and reproduction, cellular respiration and photosynthesis, classical

2019 Fall SCHEDULE

LA Trade-Technical College

Class No **Component** **Start/End Time** **Days** **Instructor** **Room**
 and contemporary genetics, gene expression and an introduction to animal structure and function.
 Meets UC/CSU GE requirement of natural science with a lab.

14648	LEC	8:00 am - 9:25 am	MW	Aguilar, J	B3-308
AND					
14652	LAB	9:35 am - 11:00 am	MW	Aguilar, J	C4-468
15046	LEC	11:40 am - 2:50 pm	Sa	Hernandez-Carretero, A	MB3-308
AND					
15075	LAB	8:00 am - 11:10 am	Sa	Hernandez-Carretero, A	MC4-408
25747	LEC	9:35 am - 11:00 am	MW	MacDonald, B S	B3-305
AND					
25748	LAB	8:00 am - 9:25 am	MW	MacDonald, B S	C4-468
14943	LEC	9:00 am - 12:10 pm	F	Gbonegun, O B	C4-408
AND					
14970	LAB	12:40 pm - 3:50 pm	F	Gbonegun, O B	C4-408
14670	LEC	10:05 am - 11:30 am	TTh	Ulrich, B N	B3-308
AND					
14677	LAB	11:40 am - 1:05 pm	TTh	Ulrich, B N	C4-408
14706	LEC	11:30 am - 12:55 pm	TTh	Olsen, B D	B3 305
AND					
14721	LAB	1:15 pm - 2:40 pm	TTh	Olsen, B D	C4-408
14864	LEC	11:50 am - 12:50 pm	MW	Aguilar, J	B3-308
And	LEC	1:00 hrs/wk TBA		Aguilar, J	ON LINE
AND					
14882	LAB	1:00 pm - 2:25 pm	MW	Aguilar, J	C4-408
14768	LEC	1:00 pm - 2:25 pm	MW	Pantastico Caldas, M C	C4-406
AND					
14783	LAB	2:35 pm - 4:00 pm	MW	Pantastico Caldas, M C	C4-408
14904	LEC	1:00 pm - 2:25 pm	TTh	Neddermeyer, K	B3-308
AND					
14920	LAB	2:50 pm - 4:15 pm	TTh	Neddermeyer, K	C4-408
14990	LEC	6:00 pm - 7:25 pm	TTh	Lavinger, S W	C4-408
AND					
15016	LAB	7:35 pm - 9:00 pm	TTh	Lavinger, S W	C4-408

BIOLOGY 005-Introduction To Human Biology (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5B 5C CSU B2 B3

Introduction To Human Biology

16351	LEC	9:35 am - 11:00 am	TTh	Liu, J C	B3 305
AND					
16356	LAB	8:00 am - 9:25 am	TTh	Liu, J C	C4-408
21953	LEC	8:00 am - 11:10 am	Sa	Mirzaton, A	B3 305
AND					
21954	LAB	11:40 am - 2:50 pm	Sa	Mirzaton, A	C4-408
25583	LEC	9:10 am - 12:20 pm	F	Harris, K	B3-308
AND					

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
25584	LAB	12:50 pm - 4:00 pm	F	Harris, K	C4-468
16346	LEC	9:40 am - 11:05 am	MW	STAFF, L	C4-305
AND					
16347	LAB	11:15 am - 12:40 pm	MW	STAFF, L	C4-408
16376	LEC	1:10 pm - 2:35 pm	TTh	Kim, O S B3 305	
AND					
16385	LAB	2:45 pm - 4:10 pm	TTh	Kim, O S C4-468	
16339	LEC	2:40 pm - 4:05 pm	MW	Wong, R K	C4-406
AND					
16342	LAB	4:15 pm - 5:40 pm	MW	Wong, R K	C4-468
16363	LEC	6:00 pm - 7:25 pm	TTh	Bryan, R	C4-468
AND					
16371	LAB	7:35 pm - 9:00 pm	TTh	Bryan, R	C4-468
21955	LEC	6:00 pm - 7:25 pm	MW	STAFF, L	B3 305
AND					
21956	LAB	7:35 pm - 9:00 pm	MW	STAFF, L	C4-408

BIOLOGY 006-General Biology I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5B 5C CSU B2 B3

Enrollment Requirement: Prerequisite: CHEM 101

This is a general biology course designed for life science and many pre-health majors. It examines basic cellular biology, metabolism, genetics, molecular biology, and the relationship between form and function of living organisms. Note: Some 4-year institutions prefer that Biology 6 and 7 be taken at the same college.

16428	LEC	9:35 am - 11:00 am	MW	Pantastico Caldas, M C	B3-308
AND					
16430	LAB	9:30 am - 12:40 pm	F	Pantastico Caldas, M C	C4-468
And	LAB	11:10 am - 12:35 pm	MW	Pantastico Caldas, M C	C4-468

Biotechnology

BIOTECH 012-Introduction To Biomanufacturing II (CSU) - 4 Units

Enrollment Requirement: Prerequisite: BIOTECH 010

This course expands on concepts from Introduction to Biomanufacturing I. It focuses on cell cultures, proteins and separation techniques as it applies to manufacturing products. The course also emphasizes environmental control in the industry. Laboratory focuses on applying techniques in molecular biology and chemistry to produce and assess a final product.

25782	LEC	11:30 am - 2:40 pm	T	Acosta, M	C4-422
AND					
25783	LAB	11:40 am - 2:50 pm	Th	Acosta, M	C4-464

Bldg Construction Techniques

BLDGCTQ 007-Weatherization - Practical Energy Efficiency Techniques - 3 Units

This course provides expertise advice on various techniques that can be used to weatherize homes and other structures. The course is suitable for application by a professional home or energy inspector. Homeowners would also benefit from the knowledge and application of the simpler

Class No	Component	Start/End Time	Days	Instructor	Room
techniques. Efficiency techniques related to: Energy basics, sealing, insulating, window replacement/installation, environmental air, water, appliance energy efficiency, and lighting are just some of the areas that will be covered.					
26016	LEC	6:00 pm - 9:10 pm	M	Wagenbach, A J	E2-136

BLDGCTQ 010-Energy And Utility Industry Careers (RPT 3) - 3 Units

This course reviews the hot jobs in the energy and utility industry. and outlines a method for the student to decide on their career path. Hiring process and interview skills will be explored. Fitness for duty and other physical and physiological characteristics will be discussed. An A to Z guide to private, State, Federal, and international career opportunities will be presented.

28481	LEC	6:00 pm - 9:10 pm	Th	Iadevaia, R E	E2-302
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BLDGCTQ 014-Carpentry And Construction For Renewable Energy Installers - 4 Units

This course covers the roof structure principles necessary for installation of solar panels. Construction techniques and principles of roof framing and construction will be emphasized. Roof covering and flashing will also be a focus of the course. The installation and mounting of different panel mounting systems will also be demonstrated and covered in class.

26017	LEC	6:00 pm - 7:25 pm	ThF	Wagenbach, A J	E2-104
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AND

26018	LAB	7:35 pm - 9:00 pm	ThF	Wagenbach, A J	E2-105
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BLDGCTQ 101-Contract's License Law (CSU) - 3 Units

Contractor's License Law is designed to prepare personnel in the construction industry on the California Law requirements for attaining a California State Contractor's License. Topics covered are License Law, Mechanic's Lien Law, Employment Regulations, Worker's Compensation, Safety in Employment and Business Management.

16759	LEC	6:00 pm - 9:10 pm	F	Whitaker, J K	E2-330
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This class is for those seeking to get a contractor's license.

BLDGCTQ 102-O.S.H.A. Based Safety Standards: Construction & Industry (RPT 3) - 2 Units

This course provides instruction on industry safety and health rules as it applies to workers and employers within the construction industry. Topics such as fall protection, lock out tag out procedures, PPE, excavations, etc. are covered. Participants that meet the required hourly attendance and successfully pass the final exam will be eligible to receive their OSHA (30 hr) safety-training certificate.

16765	LEC	6:00 pm - 8:05 pm	T	Wagenbach, A J	E2-136
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BLDGCTQ 941-Cooperative Education - Building Construction Techniques (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

28746	LEC	4:15 hrs/wk	TBA	Blumenfeld, S	E2-105
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Please send your best email address to Blumens@lattc.edu once you enroll in this Co-Op Ed class.

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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Business

BUS 001-Introduction To Business (UC/CSU) - 3 Units

Students engage in a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. The course demonstrates how these influences impact the primary areas of business including: organizational structure and design, leadership, human resource management, risk management and insurance, organized labor practices, ethics and social responsibility, marketing, organizational communication, e-business/technology, entrepreneurship, legal, accounting, and financial practices, and the stock and securities market; and therefore how they affect a business's ability to achieve its organizational goals.

14424	LEC	10:10 am - 11:35 am	TTh	Sonnier, G D	C4-210
25697	LEC	11:45 am - 1:10 pm	MW	Mcintosh, A U	C4-322
14432	LEC	1:45 pm - 4:50 pm	W	Gary, K LC4-302	
14443	LEC	6:00 pm - 9:10 pm	Th	Johnson, E R	C4-324
14420	LEC	3:10 hrs/wk	TBA	Sonnier, G D	ON LINE

BUS 005-Business Law I (UC/CSU) - 3 Units

Business Law I

15072	LEC	8:35 am - 10:00 am	MW	Sonnier, G D	C4-210
15080	LEC	6:00 pm - 9:10 pm	M	Gary, K LC4-324	
15067	LEC	3:10 hrs/wk	TBA	Sonnier, G D	ON LINE

BUS 006-Business Law II (UC/CSU) - 3 Units

Business Law II

15244	LEC	8:35 am - 10:00 am	TTh	Sonnier, G D	C4-210
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BUS 032-Business Communications (CSU) - 3 Units

This course will help students to present themselves to potential employers, solve problems, use various forms of written communication, collaborate with work teams, and use technology to communicate. Learn how to succeed in today's competitive, diverse and global business environment through excellent communication and teamwork skills.

15282	LEC	10:10 am - 12:15 pm	M	Sonnier, G D	C4-210
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AND

15285	LAB	10:10 am - 12:15 pm	W	Sonnier, G D	C4-210
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15278	LEC	2:05 hrs/wk	TBA	Wilson-Aus, A M	ON LINE
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AND

15279	LAB	2:05 hrs/wk	TBA	Wilson-Aus, A M	ON LINE
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BUS 038-Business Computations (CSU) - 3 Units

A course designed to cover the fundamentals of mathematics in business. Practical problems in trade and cash discounts, interest, taxes, and insurance, accounting and finance, fractions and decimals, banking and payroll, and percentage applications.

15338	LEC	9:00 am - 12:10 pm	F	Sherer, R S	C4-210
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
15341	LEC	6:00 pm - 9:10 pm	W	Sherer, R S	C4-210

COUNSELING

COUNSEL 002-Interpersonal Relationships (CSU) (RPT 3) - 1 Unit

Enhances interpersonal skills for building effective communication for personal and professional growth. It utilizes group dynamics by enhancing self-esteem through self-awareness, acceptance, ability to listen and workplace habits. An honest appraisal of individual strengths and weaknesses is made in an effort to help remove barriers to social and academic growth. A student educational plan (SEP) will be developed.

11909	LEC	10:40 am - 11:45 am	W	Cole, L E	E5-401
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COUNSEL 020-Post-Secondary Education: The Scope Of Career Planning (UC/CSU) - 3 Units

Requirement Designation: Meets CSU E

Introduces students to the role of higher education in society and to their role as students. Students explore personal attributes needed for college success, critical thinking and effective study strategies, relating to others in a diverse world, the career planning and decision making process, and transfer. This course will also provide students with an overview of campus resources and policies. A student educational plan (SEP) will be developed.

13507	LEC	8:30 am - 11:45 am	F	Olguin, S	E5-301
13358	LEC	11:25 am - 12:50 pm	TTh	Singh, A M	E5-301
13331	LEC	11:45 am - 1:10 pm	TTh	Salmons, I	E5-303
13340	LEC	1:30 pm - 2:55 pm	T	Hosseini, A	E5-301
And	LEC	1:25 hrs/wk	TBA	Hosseini, A	ON LINE
19799	LEC	4:00 pm - 5:25 pm	W	Hopper, M L	E5-303
And	LEC	1:30 hrs/wk	TBA	Hopper, M L	E5-303

COUNSEL 020E-Post-Secondary Education: College Success (CSU) - 1 Unit

College Success is a course designed to increase the opportunity for success in college by assisting the student in obtaining skills necessary to reach his/her educational objectives. Topics in this course include information about college catalog, success, self-esteem, values and beliefs, study skills, communication skills, and healthy lifestyles. A student educational plan (SEP) will be developed.

28898	LEC	12:00 pm - 12:50 pm	T	STAFF, L	B1-215
23810	LEC	3:30 pm - 4:50 pm	TTh	STAFF, L	OFF CAMP

location: dymally high school

Carpentry

CRPNTRY 105-Calculations And Measurement For Woodworking Students I - 3 Units

This course covers the basic math skills needed to perform in the construction field. Emphasis is placed on the basic operations and how they are applied to carpentry. Measurement calculations will be performed in both standard and metric measurements.

18008	LEC	10:40 am - 12:05 pm	TTh	Wagenbach, A J	E2-136
21548	LEC	6:00 pm - 9:10 pm	W	STAFF, L	E2-136

CRPNTRY 111A-Construction Ia (CSU) - 3 Units

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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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This course covers use and operation of hand tools, machine tools, and portable electric tools commonly used in the construction trades. Fundamentals of residential foundation and wall construction, use of rough and finish hardware, glues and adhesives, federal, state, and local building codes and ordinances are studied.

18045	LEC	6:00 pm - 9:10 pm	M	Alvarez, J L	E2-102
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CRPNTRY 111B-Construction Ib - 2 Units

This is the second laboratory course in the Carpentry 111 sequence. This covers use and operation of hand tools, machine tools, and portable electric tools commonly used in the construction trades. Fundamentals of residential foundation and wall construction will be the focus of this course.

25767	LAB	6:00 pm - 9:10 pm	WF	STAFF, L	E2-102
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CRPNTRY 114-Hand And Power Tool Application (CSU) - 4 Units

This course focuses on the safe use of hand and power tools used in the carpentry and construction industry. Operation and safety instruction will be given on both portable and stationary power tools including skill saws, table saws, jointers, planers, band saws, etc. Students will use hand and power tools to complete woodworking and carpentry projects.

18010	LAB	7:00 am - 10:30 am	MWF	Olszewski, J R	E2-104
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CRPNTRY 115-Basic Blueprint Reading And Core Construction Skills (CSU) - 3 Units

Students will be familiarized with the basic terms for construction drawings, components, and symbols. Emphasis is placed on the different types of drawings and how to interpret and use the Information. Students will also complete core construction training in safety, hand tools, power tools, communications, materials handling, and material handling. Successful completion can lead to NCCER Core certification.

18013	LAB	7:00 am - 10:35 am	TTh		E2-104
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CRPNTRY 117-Construction Materials - 2 Units

This course focuses on building materials such as concrete, steel and a variety of woods used for exterior and interior carpentry finish; insulation, flashing, roof covering, interior and exterior wall covering, wood trim and other finish materials in residential construction; rough and finish hardware such as nails, screws, bolts, timber fasteners, gang nailing, power fastening, powder actuated fasteners, joist hangers, clips, etc.; methods of installation

18015	LAB	10:45 am - 12:00 pm	MWF	Olszewski, J R	E2-104
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CRPNTRY 123-Basic House Construction (CSU) - 6 Units

This course covers the basic framing operations involved in residential construction. students will complete the framing process using large scale models. Basic construction tool operations, and processes will be emphasized and tested.

18017	LAB	7:00 am - 2:35 pm	TTh	Olszewski, J R	E2-102
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CRPNTRY 124-Blueprint Reading And Estimating I - 3 Units

Students will learn blueprint reading through the process of estimation. Material take offs, detail methods, labor calculations, profit, overhead and bid procedures will be examined.

18019	LAB	7:00 am - 10:35 am	MW	Blumenfeld, S	E2-104
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CRPNTRY 126-Construction II - 6 Units

Class No	Component	Start/End Time	Days	Instructor	Room
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The course focuses on principles of estimating, quantity take-off, materials and labor costs, bidding procedures, for new construction, renovation for both residential and commercial construction.

25770	LAB	5:30 pm - 9:45 pm	MWF	STAFF, L	E2-104
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CRPNTRY 130-Calculations And Measurement For Woodworking Students II - 3 Units

Students complete common woodworking and construction calculations with an emphasis on percentage, area and volume calculations, algebra, geometry and trigonometry as they apply to the carpentry and woodworking trades. Students calculate concrete volume, lumber requirements and material quantities, as well as perform length and size calculations.

18020	LEC	10:45 am - 12:10 pm	MW	Blumenfeld, S	E2-136
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25766	LEC	6:00 pm - 9:10 pm	Th	STAFF, L	E2-102
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CRPNTRY 132-Applied Blueprint Reading (CSU) - 3 Units

This course focuses on construction documents used in the construction of residential and light commercial projects. Emphasis is placed on the interpretation of drawings, standards, specifications, and symbols used in construction. Gathering information for material requirements and estimates will be major component of the course.

18023	LAB	8:30 am - 12:05 pm	MW	Alvarez, J L	E2-105
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CRPNTRY 133-Advanced Residential Estimating (CSU) - 3 Units

Students complete a comprehensive residential estimation project including materials, labor, overheads costs and expenses. Students perform materials take off using detailed and unit methods. Students estimate concrete and rebar requirements, lumber needs for floor, wall and roof construction as well as interior and exterior finishing materials. Labor costs are also calculated for common construction jobs. At the end of the course students will complete a comprehensive estimate for a residential construction project.

18025	LEC	7:00 am - 8:25 am	MW	Alvarez, J L	E2-105
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CRPNTRY 134-Advanced Residential Construction (CSU) - 4 Units

This course is a continuation of Basic Construction, Students will complete framing operations involving floor, wall, ceiling and roof construction. In addition, this course goes into greater depth in the areas of rough in for the preparation of electrical, plumbing, heating and ventilation.

18027	LEC	7:00 am - 8:25 am	TTh	Alvarez, J L	E2-102
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AND

18029	LAB	8:25 am - 10:30 am	TTh	Alvarez, J L	E2-104
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CRPNTRY 135-Concrete Construction (CSU) - 2 Units

Students explore and experience concrete concepts and forming. Emphasis will be placed on slab on grade forms and construction and stem forming. Students will use leveling instruments to square, level and layout buildings and forms.

18032	LAB	7:00 am - 11:15 am	F	Alvarez, J L	E2-105
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CRPNTRY 144-Residential Exterior Finish (CSU) - 4 Units

In this course, students will learn the tools, techniques, and principles of residential exterior finish. Students will install exterior finish materials such as siding, stucco and shingles. An emphasis will be placed on installation of roofing materials such as asphalt shingles.

18034	LAB	7:00 am - 10:30 am	MWF	Jordan, N C	E2-104
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Class No	Component	Start/End Time	Days	Instructor	Room
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CRPNTRY 145-Residential Interior Finish (CSU) - 5 Units

The course will focus on the materials, practices, and principles of interior finish work for residential construction. Emphasis will be placed on drywall installation and finishing, installation of interior door, installation of door hardware. Students will also install door and window casing, baseboard, and crown molding. Stair layout and construction will also be reviewed.

18037	LAB	7:00 am - 12:50 pm	TTh		E2-102
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CRPNTRY 240-Building Construction Specialties - 4 Units

This course is a continuation of Basic Construction, Students will complete framing operations involving floor, wall, ceiling and roof construction. In addition, this course goes into greater depth in the areas of rough in for the preparation of electrical, plumbing, heating and ventilation.

25771	LEC	6:00 pm - 7:25 pm	MW	STAFF, L	E2-133
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AND

26628	LAB	7:35 pm - 9:40 pm	MW	STAFF, L	E2-133
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CRPNTRY 241-Blueprint Reading And Estimating - 3 Units

Students will learn blueprint reading through the process of estimation. Material take offs, detail methods, labor calculations, profit, overhead and bid procedures will be examined.

25772	LEC	6:00 pm - 9:10 pm	Th	STAFF, L	E2-133
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CRPNTRY 243-Building Estimating I (CSU) - 3 Units

This course introduces the process of construction estimation. Students will learn the estimation process of individual systems as well as the whole structure. Students complete building data sheets and materials price sheet. They will gain experience through a complete materials estimate of a structure.

25775	LEC	6:00 pm - 9:10 pm	T	STAFF, L	E2-133
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CRPNTRY 247-Building Estimating II - 3 Units

Students complete a comprehensive residential estimation project including materials, labor, overheads costs and expenses. Students perform materials take off using detailed and unit methods. Students estimate concrete and rebar requirements, lumber needs for floor, wall and roof construction as well as interior and exterior finishing materials. Labor costs are also calculated for common construction jobs. At the end of the course students will complete a comprehensive estimate for a residential construction project.

25773	LEC	6:00 pm - 9:10 pm	F	STAFF, L	E2-133
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CRPNTRY 251-Building Codes I: International Residential Code (Irc) (CSU) - 3 Units

This class will examine the most current version of the International Residential Code. Topics include administration and planning, and the structure, logic and layout of the code. It will then take up relevant code sections for all phases of residential construction. Namely, foundation, floor, wall, roof/ceiling, electrical, plumbing and mechanical, lighting distribution and fixtures, appliance installation and swimming pools. Study materials will be aligned with the most current ICC publications.

25776	LEC	6:00 pm - 9:10 pm	M	Porter, H	E2-104
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CRPNTRY 941-Cooperative Education - Carpentry (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee

Class No	Component	Start/End Time	Days	Instructor	Room
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and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

20227	LEC	4:25 hrs/wk	TBA	Blumenfeld, S	E2-105
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Please send your best email address to Blumens@lattc.edu once you enroll in this Co-Op Ed class.

Chemical Technology

CHEM T 132-Quantitative And Instrumental Analysis I (CSU) - 5 Units

This course is dedicated to the study of principles and concepts of Quantitative and Instrumental methods of analysis including techniques using gravimetric and titrimetric analysis. Instrumental analysis such as, Gas Chromatography, Infrared Chromatography, Atomic Absorption and others are offered.

15657	LEC	7:00 am - 8:25 am	MW	Floruti, A R	C4-305
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AND

15661	LAB	8:35 am - 11:45 am	MW	Floruti, A R	C4-469
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CHEM T 133-Organic Chemistry I (CSU) - 4 Units

This course includes systematic study of hydrocarbons including nomenclature, physical and chemical properties, occurrence, synthesis, and reactions of alkanes, alkenes, and alkynes. Laboratory studies include distillations, liquid-liquid extractions, and chromatographic techniques and IR spectroscopy.

25754	LEC	7:00 am - 8:00 am	TTh	Acosta, M	C4-466
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AND

25755	LAB	8:10 am - 11:20 am	TTh	Acosta, M	C4-466
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CHEM T 142-Quantitative And Instrumental Analysis II - 5 Units

This course is a continuation of Quantitative and Instrumental Analysis I. It is an advanced course covering the theory and application of modern instrumentation and techniques for the analysis of chemical systems such as fuels, waste water, food and beverages, pharmaceuticals, metal etc. It also includes interpretative spectroscopy and computer-assigned experimentation.

25758	LEC	7:00 am - 8:25 am	MW	Lee, H	C4-466
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AND

25759	LAB	8:35 am - 11:45 am	MW	Lee, H	C4-466
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CHEM T 143-Organic Chemistry II (CSU) - 4 Units

This course addresses IUPAC nomenclature, physical and chemical properties, occurrences, synthesis, reactions, and industrial applications of aldehydes and ketones, alcohols, ethers including cyclic and crown ethers, aromatic compounds, esters, amino acids, peptides, proteins, carbohydrates synthetic and natural polymers, polarimetry, IR, UV/VIS NMR spectroscopy, and mass spectrometry.

25756	LEC	7:30 am - 8:20 am	TTh	Harper Delupio, R V	C4-324
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AND

25757	LAB	8:35 am - 11:45 am	TTh	Harper Delupio, R V	C4-469
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Chemistry

CHEM 051-Fundamentals Of Chemistry I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: MATH 114 or MATH 115

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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Chemistry 51 is a descriptive course in general, organic and biological chemistry designed for nursing and Allied Health students. Topics include: the metric system of measurements, chemical symbols, formulas and nomenclature systems, chemical equations and physical and chemical characteristics for all states of matter. Other topics include acids, bases, buffers and pH. Organic topics focus on functional group identification including hydrocarbons, organic halide, alcohols, ethers, ketones, aldehydes, amines, carboxylic acids, esters and other acid derivatives, carbohydrates, lipids and proteins are also surveyed.

12812	LEC	11:25 am - 3:50 pm	Sa	Parkin, S H	B3 305
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AND

12822	LAB	8:00 am - 11:15 am	Sa	Parkin, S H	C4-464
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24144	LEC	8:30 am - 11:40 am	T	Diaz, M	C4-424
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And	LEC	11:50 am - 12:55 pm	T	Diaz, M	C4-424
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AND

24142	LAB	8:20 am - 11:30 am	Th	Diaz, M	C4-464
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12767	LEC	8:30 am - 11:40 am	W	Diaz, M	C4-464
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And	LEC	11:50 am - 12:40 pm	W	Diaz, M	C4-305
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AND

12776	LAB	8:30 am - 11:40 am	M	Diaz, M	C4-464
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12913	LEC	9:45 am - 11:50 am	TTh	Shukla Deo, C	TBA 1
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AND

12926	LAB	12:00 pm - 3:10 pm	T	Harper Delupio, R	VC4-464
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12840	LEC	11:00 am - 3:15 pm	F	Houben, K F	B3 305
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AND

12855	LAB	3:25 pm - 6:35 pm	F	Houben, K F	C4-464
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12787	LEC	3:15 pm - 5:20 pm	MW	Lee, H	B3-308
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AND

12795	LAB	11:55 am - 3:05 pm	W	Lee, H	C4-464
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25780	LEC	12:55 pm - 3:00 pm	TTh	Jacoby, F J	C4-420
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AND

25781	LAB	3:10 pm - 6:15 pm	T	Jacoby, F J	C4-464
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12938	LEC	4:05 pm - 6:10 pm	TTh	Harper Delupio, R	VC4-305
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AND

12955	LAB	6:20 pm - 9:25 pm	Th	Harper Delupio, R	VC4-464
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23738	LEC	4:05 pm - 6:10 pm	TTh	Truong, D C	B3-308
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AND

23739	LAB	6:25 pm - 9:35 pm	T	Truong, D C	C4-464
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CHEM 101-General Chemistry I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: MATH 125

This is the first semester of a one-year course in general chemistry intended for majors in the natural sciences, (chemistry, biochemistry, biology, physics, pre-medicine), mathematics and engineering. Topics presented in this course include chemical nomenclature, atomic structure, quantum theory, bonding theories and molecular geometries, chemical equations, oxidation-reduction, stoichiometry, thermochemistry, solid, liquid and gaseous states and related forces, gas laws, solutions and

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
colligative properties, periodic relationships, and acid-base theories. Lab work involves both qualitative and quantitative analysis.					
15103	LEC	8:00 am - 11:10 am	Sa	Babajide, R M	C4-305
AND					
15105	LAB	11:40 am - 6:10 pm	Sa	Babajide, R M	C4-466
15117	LEC	10:25 am - 11:50 am	MW	Houben, K F	C4-406
AND					
15120	LAB	12:00 pm - 3:05 pm	MW	Houben, K F	C4-466
15126	LEC	10:25 am - 11:50 am	TTh	Weber, K H	C4-406
AND					
15133	LAB	12:00 pm - 3:05 pm	TTh	Weber, K H	C4-466
22730	LEC	1:35 pm - 3:00 pm	MW	Dhar, G	F5-111
AND					
22862	LAB	3:15 pm - 6:25 pm	MW	Dhar, G	C4-466
15143	LEC	4:45 pm - 6:10 pm	TTh	Villena-Visi, M Z	B3 305
AND					
15151	LAB	6:30 pm - 9:40 pm	TTh	Villena-Visi, M Z	C4-466

CHEM 102-General Chemistry II (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: CHEM 101

This is the second semester of a one-year course in general chemistry intended for majors in the natural sciences, (chemistry, biochemistry, biology, physics, pre-medicine), mathematics and engineering. Topics presented in this course include chemical kinetics, molecular and ionic equilibria, thermodynamics, electrochemistry, and nuclear, coordination, descriptive and organic chemistry. Lab work involves both qualitative and quantitative analysis.

15438	LEC	8:00 am - 11:10 am	F	Lee, H	B3-305
AND					
15444	LAB	11:40 am - 6:10 pm	F	Lee, H	C4-466
15422	LEC	1:35 pm - 3:00 pm	TTh	Sachdev, V	C4-406
AND					
15425	LAB	3:15 pm - 6:25 pm	TTh	Sachdev, V	C4-466
15430	LEC	4:45 pm - 6:10 pm	MW	Acosta, M	C4-406
AND					
15435	LAB	6:35 pm - 9:45 pm	MW	Acosta, M	C4-466
28659	LEC	4:45 pm - 6:10 pm	MW	Acosta, M	C4-406
AND					
28660	LAB	6:35 pm - 9:45 pm	MW	Acosta, M	C4-466

CHEM 211-Organic Chemistry For Science Majors I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: CHEM 102

This course is the first part of a two semester organic chemistry course sequence. Students are introduced to organic molecular structures, bonding, nomenclature including conformational analysis, potential energy plots, hybridization, stereochemistry and functional group chemistry, with

Class No	Component	Start/End Time	Days	Instructor	Room
emphasis on reactions and reaction mechanisms. It also includes the applications of instrumental methods in functional group analysis and identification of molecular structures. In the laboratory students learn the essential skills and techniques of preparation, isolation, purification, and analysis of organic compounds by employing standard and modern instrumental methods. This course also emphasizes the use and interpretation of Nuclear Magnetic Resonance (NMR), Infrared (IR) Spectroscopy and Gas Chromatography (GC) in the analysis and identification of organic compounds.					

This course is part of the transfer sequence for careers in the physical, biological, and health sciences and a requirement for the Associate of Sciences degree in Chemistry.

15552	LEC	4:45 pm - 6:10 pm	MW	Shukla, B	C4-305
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AND

15554	LAB	6:35 pm - 9:45 pm	MW	Shukla, B	C4-464
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CHEM 212-Organic Chemistry For Science Majors II (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: CHEM 211

This course is a continuation of Chemistry 211 with emphasis on the remaining functional groups and aromaticity. Emphasis is put on reactions and reaction mechanisms, stereochemistry, multi-step synthesis of a variety of organic compounds such as aromatic compounds, alcohols, phenols, amines, heterocyclics, aldehydes, ketones, carboxylic acids and their derivatives. The structures, formation and reactions of enols and enolate anions are also studied. The structures and functional group reactions of biological molecules such as carbohydrates, amino acids, polypeptides, lipids and nucleic acids are discussed. The laboratory work presents more techniques of multi-step synthesis, isolation, purification, and analysis of organic compounds using conventional and modern instrumental methods. This course also emphasizes the use and interpretation of Nuclear Magnetic Resonance (NMR), Infrared (IR), Mass Spectroscopy (MS), Ultraviolet (UV), and Gas Chromatograph (GC) in the analysis and identification of organic compounds.

The Chem. 211 and 212 sequence satisfy the one year organic chemistry requirement for careers in the physical, biological, and health sciences and a requirement for the Associate of Sciences degree in Chemistry.

22173	LEC	1:35 pm - 3:00 pm	MW	Diaz, M	F5-107
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AND

22174	LAB	3:15 pm - 6:25 pm	MW	Diaz, M	C4-464
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Child Development**CH DEV 001-Child Growth And Development (UC/CSU) - 3 Units**

Requirement Designation: Meets IGETC 4I CSU D9 E

Students examine the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is 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.

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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
17149	LEC	9:00 am - 12:10 pm	F	Patron, A	C4-321
17160	LEC	9:00 am - 12:10 pm	Sa	Essex, R W	C4-222
17144	LEC	12:30 pm - 3:40 pm	T	Vega, C	C4-262
17167	LEC	6:00 pm - 9:10 pm	M	Martinez, H	C4-321

CH DEV 002-Early Childhood: Principles And Practices (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001

TB clearance required

The student will explore the history of early childhood education as well as current philosophies and practices. Early Childhood programs will be observed and examined in relation to the needs of the child, the arrangement of the environment and the role of the teacher.

17408	LEC	6:00 pm - 9:10 pm	T	Riley, L	C4-321
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CH DEV 007-Introduction To Curriculum In Early Childhood Education (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001 and CH DEV 002

Students learn and develop the knowledge and skills to provide appropriate curriculum and environments for young children from birth to age 6. Students examine a 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. Planning, implementation and evaluation of curriculum includes but not be limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math, natural and physical sciences.

17496	LEC	6:00 pm - 9:10 pm	T	Benjamin, M D	C4-262
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CH DEV 008-Curriculum In Early Childhood Education (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001 and CH DEV 002 and CH DEV 007

Students design and evaluate developmentally appropriate curriculum and environments for young children from birth to age 8. Based on the value of play, students demonstrate the teacher's role in applying theory to practice in supporting children's concept development. Preparing and assessing the implementation of curriculum will include but not be limited to: language and literacy, social studies, art and creativity, music and rhythm, perceptual motor development, mathematics, natural and physical sciences.

17531	LEC	6:00 pm - 9:10 pm	Th	Gomez-Villaflor, E A	C4-262
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CH DEV 010-Health, Safety And Nutrition (CSU) - 3 Units

Students learn about the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health, and safety for children and staff are identified along with importance of collaboration with families and health professional. The interrelationship of health, safety and nutrition and the impact on children's growth and development are key focuses

17566	LEC	9:00 am - 12:10 pm	F	Rodriguez, G J	C4-222
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17571	LEC	6:00 pm - 9:10 pm	T	Dickerson, D E	C4-222
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CH DEV 011-Child, Family And Community (CSU) - 3 Units

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

Class No	Component	Start/End Time	Days	Instructor	Room
socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.					
10615	LEC	6:00 pm - 9:10 pm	W	Riley, L	C4-262

CH DEV 022-Practicum In Child Development I (CSU) - 4 Units

Enrollment Requirement: Prerequisite: CH DEV 001 and CH DEV 002 and CH DEV 007 and CH DEV 011

Students are assigned to an approved Early Care and Education program to practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of an ECD/CD faculty and other qualified early education professionals. Students 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, assessment, and knowledge of curriculum content areas is emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning.

11066	LEC	1:30 pm - 3:35 pm	W	Williams, J	C4-262
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AND

11069	LAB	6:45 hrs/wk	TBA	Williams, J	C4-262
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11083	LEC	6:00 pm - 8:05 pm	W	Lovett, M A	C4-222
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AND

11093	LAB	6:45 hrs/wk	TBA	Lovett, M A	C4-222
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CH DEV 023-Practicum In Child Development II (CSU) - 4 Units

Enrollment Requirement: Prerequisite: CH DEV 022

This course provides an advanced practicum experience. Students apply assessment strategies to plan, implement, and evaluate developmentally appropriate activities. Techniques that promote partnerships between teachers and families are developed. An educational philosophy statement, a resume and a professional portfolio are created. Students assigned to directed practicum teaching in a child development center demonstrate professional and ethical behaviors.

11299	LEC	6:00 pm - 8:05 pm	W	Kiel, W	SC4-321
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AND

11303	LAB	6:45 hrs/wk	TBA	Kiel, W	SC4-321
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CH DEV 030-Infant/Toddler Development (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001

This course reviews physical, social-emotional, language and cognitive development during the period of infancy and toddlerhood. Focus is on infant/toddler group care and licensing regulations related to this age. The course also addresses the role of the caregiver in meeting the needs of infants and toddlers and their families through responsive, respectful and sensitive caregiving practices. Varying philosophies and issues of diversity are explored.

19737	LEC	6:00 pm - 9:10 pm	M	Velasco, P	C4-222
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CH DEV 034-Observing And Recording Children's Behavior (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001

This course focuses on the appropriate use of a variety of assessment and observation strategies to document child development, growth, behaviors, play and learning, and to join with families and

2019 Fall SCHEDULE

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Class No	Component	Start/End Time	Days	Instructor	Room
11622	LEC	6:00 pm - 9:10 pm	M	STAFF, L	C4-262

CH DEV 038-Administration & Supervision Of Early Childhood Programs I (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001 and CH DEV 002 and CH DEV 010 and CH DEV 011

19738	LEC	9:00 am - 12:10 pm	Sa	Hardy, L G	C4-262
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CH DEV 042-Teaching In A Diverse Society (CSU) - 3 Units

Students examine the development of social identities in diverse societies including theoretical and practical implications affecting young children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. The course involves self-reflection of one's own understanding of educational principles in integrating anti-bias goals in order to better inform teaching practices and/or program development.

11992	LEC	6:00 pm - 9:10 pm	Th	Velasco, P	C4-222
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CH DEV 044-Early Intervention For Children With Special Needs (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001 and CH DEV 030

This course is designed for students interested in specializing in working with young children with exceptional needs and their families. Instruction focuses on accommodating and adapting the physical environment, instructional strategies and curriculum to meet the needs of differently-abled very young children and their families.

28263	LEC	6:00 pm - 9:10 pm	Th	Dickerson, D E	C4-321
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CH DEV 046-School Age Programs I (CSU) - 3 Units

Enrollment Requirement: Prerequisite: CH DEV 001

This course examines school age care programs designed for those planning to work in before and after school programs. The students will explore the developmental needs of school age children, program models, creation of environments, classroom management techniques and designing developmentally appropriate experiences as well as curriculum.

12259	LEC	9:00 am - 12:10 pm	Sa	Dezgaran, M R	C4-321
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CH DEV 941-Cooperative Education - Child Development (CSU) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

20137	LEC	4:15 hrs/wk	TBA	Vega, C	C4-208
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Communication Studies

COMM 101-Public Speaking (UC/CSU) - 3 Units

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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Requirement Designation: Meets IGETC 1C CSU A1

Students study the theory and techniques of public speaking in a democratic society. Students will apply rhetorical principles to topic selection and audience analysis, research and reasoning of information, speech composition and outlining, presentation aids and delivery, and listening and evaluation of public discourse. Students practice effective communicative strategies for various types of original speeches including informative and persuasive speeches. Focus will be on developing credibility as a speaker and demonstrating confidence before an audience. This course meets Communication Studies Associate Degree for and transfer requirements in Oral Communication.

16912	LEC	7:00 am - 8:25 am	TTh	Glavan, J J	F5-201
16920	LEC	8:35 am - 10:00 am	MW	McDermott, D A	F5-206
16932	LEC	8:35 am - 10:00 am	TTh	McDermott, D A	F5-206
16954	LEC	8:35 am - 11:45 am	Sa	STAFF, L	F5-201
17134	LEC	8:35 am - 10:00 am	MW	Glavan, J J	F5-212
17050	LEC	9:00 am - 12:15 pm	F	Mock, J C	F5-201
16917	LEC	10:10 am - 11:35 am	MW	McDermott, D A	F5-206
16927	LEC	10:10 am - 11:35 am	TTh	McDermott, D A	F5-206
16939	LEC	10:10 am - 11:35 am	TTh	Glavan, J J	F5-201
16982	LEC	10:10 am - 11:35 am	MW	Glavan, J J	F5-201
16924	LEC	11:45 am - 1:10 pm	MW	Glavan, J J	F5-206
16975	LEC	11:45 am - 1:10 pm	TTh	Glavan, J J	F5-206
17063	LEC	1:20 pm - 2:45 pm	MW	Glavan, J J	F5-206
17102	LEC	4:45 pm - 8:00 pm	F	Mock, J C	F5-201
16993	LEC	6:00 pm - 9:10 pm	M	Mock, J C	F5-201
17008	LEC	6:00 pm - 9:10 pm	W	Mock, J C	F5-201
17025	LEC	6:00 pm - 9:10 pm	Th	Mock, J C	F5-201
17039	LEC	6:00 pm - 9:10 pm	T	Mock, J C	F5-201

Community Plan/Economic Dev

COMPLAN 001-Introduction To Community Economic Development (CSU) - 3 Units

This course is an introduction to the theory, history, and practice of community development. The course covers: neighborhood development and community building strategies; land use and real estate development; and business and labor force development strategies used to revitalize urban neighborhoods. Students will produce a neighborhood plan using e-planning tools including: asset maps, an economic development and a workforce development plan.

17988	LEC	6:00 pm - 9:10 pm	M	Torres, B	F5-312
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COMPLAN 005-Sector Development And Employment Strategies (CSU) - 3 Units

Understand the community development sector and nonprofit industry creates viable jobs and facilitate employment strategies. Particular attention will be devoted to initiatives and training programs in the greater Los Angeles region.

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
25573	LEC	6:00 pm - 9:10 pm	Th	STAFF, L	F5-312

COMPLAN 009-Commercial Real Estate Development (CSU) - 3 Units

This course will teach students how to develop commercial real estate projects with a specific focus on retail and inner city development. The introductory course builds skills and competencies in land development, developing financing, marketing and leasing of small and mid size commercial projects. Through case studies, simulations and project-based learning, students recognize development strategies and tools used by public, private and non-profit organizations.

25572	LEC	6:00 pm - 9:10 pm	W	Wilson, J W	F5-312
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COMPLAN 010-Comprehensive Community Violence Prevention (CSU) - 3 Units

The course provides students an overview of the larger issues of violence prevention and its impact on community development. The course prepares students for work in the field of community violence prevention.

23809	LEC	6:00 pm - 9:10 pm	Th	Galindo, M	OFF CAMP
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location: job corps, 1020 S Olive St, Los Angeles, CA 90015

COMPLAN 030-Market Research Tools For The Economic Development Process - 3 Units

Designed for professionals in community economic development organizations that provide technical assistance to small businesses. This hands-on course will provide professionals with the tools needed to assess client needs and develop and implement effective market research and marketing plans for small businesses.

25571	LEC	6:00 pm - 9:10 pm	T	STAFF, L	F5-312
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Computer Apps Office Tech

CAOT 002-Computer Keyboarding II (CSU) - 3 Units

Students continue to improve keyboarding techniques, speed, and accuracy through drills and timed writings. They use Microsoft Word to create memos, letters, reports, and tables as well as focus on improving proofreading skills.

15598	LEC	8:00 am - 9:05 am	MW	Bailey, P	C4-320
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AND

15599	LAB	9:10 am - 10:35 am	MW	Bailey, P	C4-320
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CAOT 007-Machine Transcription - 3 Units

Machine Transcription

20106	LEC	10:50 am - 12:55 pm	T	Bailey, P	C4-320
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AND

20107	LAB	10:45 am - 12:50 pm	Th	Bailey, P	C4-320
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CAOT 020-Medical Office Procedures (CSU) - 5 Units

Medical Office Procedures

15662	LEC	1:30 pm - 5:45 pm	T	Haymon, S B	C4-320
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AND

15663	LAB	1:30 pm - 3:35 pm	Th	Haymon, S B	C4-320
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CAOT 030-Office Procedures (CSU) - 3 Units

Office Procedures

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Class No	Component	Start/End Time	Days	Instructor	Room
15678	LEC	10:45 am - 12:50 pm	M	Galindo, M	C4-320

AND

15680	LAB	10:45 am - 12:50 pm	W	Galindo, M	C4-320
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CAOT 033-Records Management And Filing - 2 Units

Students learn creation, storage, disposition and preservation of all types of documents using alphabetic, geographic, numeric, and subject methods. Includes database management on a microcomputer.

20108	LEC	1:30 pm - 2:35 pm	W	Emerson, V M	C4-320
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AND

20109	LAB	2:45 pm - 4:50 pm	W	Emerson, V M	C4-320
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CAOT 034-Business Terminology (CSU) - 2 Units

This course will enrich vocabulary and improve spelling with particular emphasis on terminology used in a business environment.

20110	LEC	1:30 pm - 3:35 pm	M	Sherman, I C	C4-320
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CAOT 067-Microsoft Outlook For The Office - 2 Units

Students learn to use Microsoft Outlook to send and receive e-mail messages as well as manage contacts and mail. Students learn to use Outlook's Calendar for scheduling appointments, planning meetings, and scheduling events. They also learn to use Outlook's Tasks and Notes features

25725	LEC	1:30 pm - 2:35 pm	M	Yonge, W	C4-210
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AND

25726	LAB	2:45 pm - 4:50 pm	M	Yonge, W	C4-210
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CAOT 082-Microcomputer Software Survey In The Office (CSU) - 3 Units

This course provides hands-on experience and training in the basic concepts and functions of the Microsoft Office Suite. Students gain core level skills necessary to design, create, and edit word processing documents using Word, spreadsheets using Excel, databases using Access, and presentation graphics using PowerPoint. Other topics may include e-mail and communication software using Outlook, information systems, e-commerce, networking, ethics and security, and computer hardware components, and the Windows operating system.

15988	LEC	6:00 pm - 7:05 pm	MW	Taylor, P A	C4-320
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AND

15990	LAB	7:15 pm - 8:40 pm	MW	Taylor, P A	C4-320
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CAOT 084-Microcomputer Office Applications: Word Processing (CSU) - 3 Units

Use basic and advanced commands in Microsoft Word or other word processing software to create, format, edit, save, and print documents including letters, tables, reports, and merge documents. Use desktop publishing features to create newsletters, brochures, fliers, and resumes.

16135	LEC	8:00 am - 9:05 am	TTh	Bailey, P	C4-320
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AND

16139	LAB	9:15 am - 10:40 am	TTh	Bailey, P	C4-320
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21563	LEC	6:00 pm - 7:05 pm	TTh	Lindsey, M P	C4-320
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AND

21564	LAB	7:15 pm - 8:40 pm	TTh	Lindsey, M P	C4-320
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CAOT 085-Microcomputer Office Applications: Spreadsheet (CSU) - 3 Units

Class No	Component	Start/End Time	Days	Instructor	Room
Microcomputer Office Applications: Spreadsheet					
16182	LEC	8:00 am - 9:05 am	F	Bailey, P	C4-320
AND					
16185	LAB	9:15 am - 1:30 pm	F	Bailey, P	C4-320

Computer Information Systems

CO INFO 011-Network Security Fundamentals (CSU) - 3 Units

This course provides instruction and hands-on training in the following computer information systems concepts: Basic security principles, methods of establishing security baselines, and the most recent attack and defense techniques and technologies. It will also help prepare for CompTIA's examination and professional security certification. Course covers an overview of current network security tools, specific skills and related topics, and insight into future trends and issues in network security.

12186	LEC	6:00 pm - 8:05 pm	M	STAFF, L	C4-302
AND					
12194	LAB	6:00 pm - 8:05 pm	W	STAFF, L	C4-302

CO INFO 040-Beginning Level Programming/Computer Games (CSU) - 3 Units

This course will provide students with a basic understanding of how a game 'idea' is transformed to a marketable product, while educating them on the roles and duties of a game development team and the practices exercised within the game development industry. This course is an in-depth study of level plans for computer video games.

19462	LEC	3:45 pm - 5:50 pm	M	STAFF, L	C4-307
AND					
19463	LAB	3:45 pm - 5:50 pm	W	STAFF, L	C4-307

CO INFO 700-Computer Concepts (CSU) - 3 Units

This course provides an overview of Information Technology concepts that explore the aspects of computer hardware and software, operating systems and networking, programming, and the Internet. Class lectures cover prevailing industry terminologies and the latest breakthroughs in the field of Information Technology that span the convergent branches of hardware, software, and the Internet as evident in today's social media wherein online human interaction is mediated by advanced hardware/software technologies, and the so-called 'Internet of Things' where all digital devices known to humankind are connected and how they affect modern society. This course is designed for students with minimal or no previous computer background and those who need to refresh their knowledge with the latest terms and trends in Information Technology.

12288	LEC	9:15 am - 11:20 am	M	STAFF, L	C4-307
AND					
12295	LAB	9:15 am - 11:20 am	W	STAFF, L	C4-307
12307	LEC	3:45 pm - 5:50 pm	T	STAFF, L	C4-302
AND					
12320	LAB	3:45 pm - 5:50 pm	Th	STAFF, L	C4-302

CO INFO 701-Introduction To Computers And Their Uses (UC/CSU) - 3 Units

The students will be introduced to computer applications using Microsoft Office. Word, Excel, Access are covered. Also, the students will learn to integrate different applications, and understand the

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Class No	Component	Start/End Time	Days	Instructor	Room
fundamentals of the Windows operating system.					
12341	LEC	7:00 am - 9:05 am	M	STAFF, L	C4-307
AND					
12351	LAB	7:00 am - 9:05 am	W	STAFF, L	C4-307
12365	LEC	6:00 pm - 8:05 pm	T	STAFF, L	C4-302
AND					
12377	LAB	6:00 pm - 8:05 pm	Th	STAFF, L	C4-302
12324	LEC	2:05 hrs/wk	TBA	Pakbaz, M	ON LINE
AND					
12332	LAB	2:05 hrs/wk	TBA	Pakbaz, M	ON LINE

CO INFO 709-Visual Basic Programming (UC/CSU) - 3 Units

The primary topic of this class is the structure and methods of the Visual Basic programming system. This system is widely used to create computer applications that include interaction with a user, and is called object-oriented programming.

12380	LEC	6:00 pm - 8:05 pm	T	STAFF, L	C4-307
AND					
12386	LAB	6:00 pm - 8:05 pm	Th	STAFF, L	C4-307

CO INFO 733-Microcomputer Database Programming (CSU) - 3 Units

A complete presentation of relational database management systems using Microsoft Access, including database design, creating and modifying macros, queries, forms, and reports. Using VBA and SQL are also included in this course.

12397	LEC	7:00 am - 9:05 am	T	Pakbaz, M	C4-307
AND					
12402	LAB	7:00 am - 9:05 am	Th	Pakbaz, M	C4-307

CO INFO 739-Programming In C++ (UC/CSU) - 3 Units

This class provides an introduction to the use of the C++ programming system. It emphasizes the syntax and grammar of its coding language. The method of instruction is the use of the system to implement computer application projects using the traditional programming structures of sequence, selection, and loops, use of functions, arrays and strings and how different data types work.

12405	LEC	2:05 hrs/wk	TBA	Pakbaz, M	ON LINE
AND					
12411	LAB	2:05 hrs/wk	TBA	Pakbaz, M	ON LINE

CO INFO 743-Object-Oriented Programming In C++ (UC/CSU) - 3 Units

This course develops an understanding of Object-Oriented programming. It includes Object-oriented analysis and design. Major topics include classes, constructor, destructor, accessor and mutator functions, overloaded functions and operators, inheritance, and polymorphism.

12415	LEC	12:00 pm - 2:05 pm	T	Pakbaz, M	C4-307
AND					
12423	LAB	12:00 pm - 2:05 pm	Th	Pakbaz, M	C4-307

CO INFO 757-Xhtml Programming And Applications (CSU) - 3 Units

The course covers the fundamental operations of the eXtensible HyperText Markup Language (XHTML) system. It consists of projects that provide experience in the methods used to produce and

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Class No	Component	Start/End Time	Days	Instructor	Room
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modify documents for the World Wide Web.

20111	LEC	6:00 pm - 8:05 pm	M	STAFF, L	C4-307
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AND

20112	LAB	6:00 pm - 8:05 pm	W	STAFF, L	C4-307
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CO INFO 762-Introduction to Javascript Programming (CSU) - 3 Units

This class provides an introduction to the use of the JavaScript programming system. It emphasizes the syntax and grammar of its coding language and it is embedded into the Web page structure. The method of instruction is projects which include the design and implementation of calculations and related actions into a Web page.

21565	LEC	9:15 am - 11:20 am	T	Pakbaz, M	C4-307
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AND

21566	LAB	9:15 am - 11:20 am	Th	Pakbaz, M	C4-307
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CO INFO 790-Programming In Java (UC/CSU) - 3 Units

This course covers the fundamental operations of the Java programming system. It consists of projects that provide experience in the methods used to create Java applications and applet that will run in Internet web pages. Also to create GUI user interface screens.

19460	LEC	3:45 pm - 5:50 pm	T	STAFF, L	C4-307
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AND

19461	LAB	3:45 pm - 5:50 pm	Th	STAFF, L	C4-307
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Coop Ed

COOP ED 395-Work Experience - General I (CSU) - 3 Units

Work Experience - General I

21570	LEC	3:10 hrs/wk	TBA	Dam, M C	C4-208
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Culinary Arts

CLN ART 111-Culinary Arts Orientation I (CSU) - 4 Units

Enrollment Requirement: Prerequisite or Corequisite: CLN ART 112

With a combination of lecture and lab practice, the students are introduced to the world of commercial food production. Students are introduced to culinary theories and develop skills in knife handling, ingredient identification, small and large equipment use, weights and measures, recipe development and cooking fundamentals.

11167	LEC	7:00 am - 9:05 am	Sa	Pasin, C	B4-132
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AND

11173	LAB	9:15 am - 3:45 pm	Sa	Pasin, C	B4-107
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11186	LEC	7:00 am - 9:05 am	F	Garnica Diaz, E	B4-132
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AND

11195	LAB	9:15 am - 3:45 pm	F	Garnica Diaz, E	B4-107
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CLN ART 122-Culinary Arts - Gardemanger II (CSU) - 6 Units

Enrollment Requirement: Prerequisite: CLN ART 111 and CLN ART 112

Students will become proficient in the historical features of the garde manger stations including planning and preparation of cold soups, hors d' oeuvres, appetizers, canape, mousse, timbale, cold sauces, relishes, force-meat, galantine, terrine, pate en croute components. Preparation and usages

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Class No	Component	Start/End Time	Days	Instructor	Room
of specialty meats, sweetbreads, and sausage will be defined; gelee, aspic, chaud froid, glazing, marinating, curing will be practiced: and buffet presentation, the display of carved fruit and vegetable garnishes and centerpieces will be studied. Projects will include international cuisine, salt dough sculpting and ice carving.					

25599	LEC	2:00 pm - 3:10 pm	MTW	Vachon, J A	B4-119
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AND

25600	LAB	3:20 pm - 5:40 pm	MTW	Vachon, J A	B4-107
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CLN ART 170-Culinary Nutrition (CSU) - 2 Units

This course provides a quick overview of applied culinary nutrition. Recipe and menu development including ingredient selection and cooking techniques will be discussed. Special diet (low fat, low sodium, diabetic, and caloric intake) will be discussed. Appropriate for food service professionals who would like to work as personal chefs, with sports teams, at spas and resorts, major hospital chains, entertainment or transportation industries or in health care.

25689	LEC	8:00 am - 10:05 am	F	Spence, R T	B4-314
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CLN ART 941-Cooperative Education - Culinary Arts (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to ensure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

12084	LEC	4:25 hrs/wk	TBA	Damaso, S D	D4-232
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Diesel And Related Technology

DIESLTK 112-Diesel Engine And Electrical Fundamentals - 11 Units

This course is designed to cover the theory and operation of diesel engine components, shop safety, tools, fastening devices, use of measuring instruments, and electrical systems. The student should develop, hands-on skills, manual dexterity skills, critical thinking skills and basic employment skills.

12543	LEC	7:00 am - 8:25 am	MTWTh	Rojas, C A	B1-118
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AND

12548	LAB	8:35 am - 12:40 pm	MTWTh	Rojas, C A	B1-118
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DIESLTK 112A-Diesel Engine Fundamentals - 5.5 Units

This course is designed to cover the theory and operation of diesel engine components and supporting systems, shop safety, tools, fastening devices, and use of measuring instruments.

25442	LEC	3:10 hrs/wk	TBA	Perez, G C	ON LINE
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AND

25443	LAB	12:50 pm - 4:55 pm	TTh	Perez, G C	B1-118
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DIESLTK 112B-Electrical Fundamentals (CSU) - 5.5 Units

This course is designed to cover the theory and operation of electrical fundamentals. The student should develop, hands-on skills, manual dexterity skills, critical thinking skills on electrical parts and systems.

28300	LEC	3:10 hrs/wk	TBA	STAFF, L	ON LINE
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AND

28301	LAB	12:50 pm - 4:55 pm	MW	STAFF, L	B1-118
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Class No	Component	Start/End Time	Days	Instructor	Room
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DIESLTK 122-Diesel Fuel Injection Systems & Basic Hydraulics And Air Conditioning (CSU) - 11 Units

This course covers the principles of fuel injection systems & basic hydraulics and air conditioning. Course will cover principles of fuel processing and delivery methods, including fuel sub-systems, pumps and injectors. This course will cover Basic hydraulics, theory and components along with current air conditioning system operation and servicing.

12578	LEC	7:00 am - 8:25 am	MTWTh	Perez, G C	B1-126
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AND

12589	LAB	8:35 am - 12:40 pm	MTWTh	Perez, G C	B1-126
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DIESLTK 132-Heavy Duty Drive Train & Air Brake Systems (CSU) - 11 Units

Enrollment Requirement: Prerequisite: DIESLTK 112 and DIESLTK 122

This course will cover the operating principles and repair of heavy duty clutches, transmissions, drive shafts, and differentials. In addition, students will also learn the operation and repair of air systems, foundation brakes, and anti-lock brake systems.

10009	LEC	7:00 am - 8:25 am	MTWTh	Semadeni, A A	B1-210
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AND

10012	LAB	8:35 am - 12:40 pm	MTWTh	Semadeni, A A	B1-100
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DIESLTK 132B-Air Brake Systems (CSU) - 5.5 Units

This course will cover the operation and repair of air systems, foundation brakes, and anti-lock brake systems.

25426	LEC	3:10 hrs/wk	TBA	STAFF, L	ON LINE
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AND

25427	LAB	7:30 am - 3:40 pm	Sa	STAFF, L	B1-210
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DIESLTK 142-Diesel Engine Overhaul & Electronic Engine Controls (CSU) - 11 Units

Enrollment Requirement: Prerequisite: DIESLTK 112 and DIESLTK 122

This course covers diesel engine overhaul principles including disassembly, inspection, and reassembly as part of overhauling a diesel engine. The operation of electronic engine controls will also be covered with an emphasis on using OEM diagnostic software in the troubleshooting of a diesel engine.

10013	LEC	7:00 am - 8:25 am	MTWTh	Guerra, C	B1-211
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AND

10015	LAB	8:35 am - 12:40 pm	MTWTh	Guerra, C	B1-100
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DIESLTK 142A-Diesel Engine Overhaul (CSU) - 5.5 Units

This course covers diesel engine overhaul principles including disassembly, inspection, and reassembly as part of overhauling a diesel engine.

25428	LEC	5:00 pm - 6:25 pm	TTh	Cavanaugh, J M	B1-211
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AND

25429	LAB	6:35 pm - 10:25 pm	TTh	Cavanaugh, J M	B1-100
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DIESLTK 142B-Electronic Engine Controls (CSU) - 5.5 Units

The operation of electronic engine controls will be covered with an emphasis on using OEM diagnostic software in the troubleshooting of a diesel engines.

25432	LEC	5:00 pm - 6:25 pm	MW	Mejia, O	B1-211
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Class No	Component	Start/End Time	Days	Instructor	Room
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25433	LAB	6:35 pm - 10:25 pm	MW	Mejia, O	B1-100
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DIESLTK 185-Directed Study - Diesel And Related Technology - 1 Unit

This course allows students to pursue a directed study in Diesel and Related Technology on a contract basis under the direction of a supervising instructor.

10016	LEC	1:04 hrs/wk	TBA	Guerra, J	ON LINE
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DIESLTK 301-Introduction To Alternative Fuels & Hybrid Vehicle Technology (CSU) - 1 Unit

This course provides an introduction to various alternative fuel technologies being used in the automotive and heavy-duty diesel fields. Covers description and basic operation of Bio-diesel, Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Fuel Cell and hybrid vehicle technologies.

10020	LEC	1:04 hrs/wk	TBA	Guerra, J	ON LINE
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DIESLTK 302-Hybrid And Plug-In Electric Vehicle (CSU) - 6 Units

This course covers hybrid and plug-in electric vehicle system fundamentals including vehicle safety, special tools, different hybrid system configurations, high voltage battery construction and maintenance, de-powering procedures and basic service.

10026	LEC	1:35 pm - 3:25 pm	TTh	Semadeni, A A	B1-210
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AND

10029	LAB	3:35 pm - 6:05 pm	TTh	Semadeni, A A	B1-100
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DIESLTK 401-Rail Systems Overview, Safety, Tools, and Mechanical Principles - 10 Units

This course provides an introduction to the rail industry and the various modes of rail vehicles and their use. Rail safety, tools and mechanical principles are also covered.

19941	LEC	7:00 am - 8:10 am	MTWTh	Ramirez, M A
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AND

19942	LAB	8:20 am - 12:35 pm	MTWTh	Ramirez, M A
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DIESLTK 401A-RAIL SYSTEMS OVERVIEW, SAFETY AND TOOLS (CSU) - 5 Units

RAIL SYSTEMS OVERVIEW, SAFETY AND TOOLS

25438	LEC	4:00 pm - 5:10 pm	MW	Ramirez, J R
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AND

25439	LAB	5:20 pm - 9:35 pm	MW	Ramirez, J R
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DIESLTK 403-Rail Vehicle Pneumatic & Hydraulic Controls, HVAC & Car Body - 10 Units

This course provides an overview of the steps for inspecting, maintaining troubleshooting, and rebuilding rail vehicle systems and system components, including propulsion, current collection, trucks and axles, dynamic braking, couplers, HVAC, car body, and communication systems.

21539	LEC	7:00 am - 8:10 am	MTWTh	Ramirez, J R	B1-214
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AND

21540	LAB	8:20 am - 12:35 pm	MTWTh	Ramirez, J R	B1-214
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DIESLTK 941-Cooperative Education - Diesel And Related Technology (CSU) (RPT 3) -

Class No	Component	Start/End Time	Days	Instructor	Room
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4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

10035	LEC	4:25 hrs/wk	TBA	Guerra, J	B1-214
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Digital Media**DIGLMD 100-Introduction To Digital Video (UC/CSU) - 3 Units**

Students are introduced to the process and tools of non-linear video editing. Basic skills will be developed in editing techniques, media file formats, basic audio editing, compression types, industry terminology, development of basic still and motion graphics, and understanding key concepts of shooting for digital systems. Students will produce short video sequences that are appropriately compressed for delivery via web/Internet and various digital media.

10065	LEC	8:00 am - 10:05 am	T	Rochford, M M	D4-200
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AND

10069	LAB	10:15 am - 12:20 pm	T	Rochford, M M	D4-200
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DIGLMD 101-Fundamentals Of Digital Media (UC/CSU) - 3 Units

Students will survey a range of digital media technologies and analyze the ever-changing adaptations of digital media. Students will also participate in the production of digital media projects that will be designed to provide an introduction to a variety of digital media environments.

20656	LEC	8:00 am - 10:05 am	F	Vulovich, N	CY/ D200
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AND

20657	LAB	10:15 am - 12:20 pm	F	Vulovich, N	CY/ D200
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DIGLMD 103-Fundamental Of Digital Audio (UC/CSU) - 3 Units

Students are introduced to the principles and process of digital audio recording and reproduction. Topics include such aspects as sound design, acoustics, Dolby surround sound, microphones, mixers, outboard gear, signal flow, and recording and editing audio. Further exploration will involve analog over digital formats and destructive over non-destructive editing.

10267	LEC	3:30 pm - 5:35 pm	T	Reed, P W	D4-302
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AND

10279	LAB	3:30 pm - 5:35 pm	Th	Reed, P W	D4-302
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DIGLMD 105-Visual Design For Digital Media (UC/CSU) - 3 Units

Students will analyze the core principles of visual design, particularly as they relate to narrative and interactive digital media. Students will then apply those principles to the production of digital media projects.

10292	LEC	8:00 am - 10:05 am	M	Vulovich, N	D4-200
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AND

19293	LAB	10:15 am - 12:20 pm	M	Vulovich, N	D4-200
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DIGLMD 107-Digital Audio Studio Recording (CSU) - 3 Units

Students will learn recording techniques of a modern studio and understand the role of the engineer. The course covers modern digital audio workstations using a mixer board to record multiple audio

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Class No **Component** **Start/End Time** **Days** **Instructor** **Room**
tracks simultaneously, as well as mixing recorded audio for audio balancing.

21551 LEC 6:00 pm - 8:05 pm T Reed, P W D4-302

AND

21552 LAB 6:00 pm - 8:05 pm Th Reed, P W D4-302

DIGLMD 110-Visual Effects And Motion Graphics (UC/CSU) - 3 Units

Students will learn to use advanced components of Adobe After Effects to create motion graphics with text and animation. Tools such as keyframes, motion paths and masks will be used to create complex visual effects and motion graphics projects.

19294 LEC 8:00 am - 10:05 am Th Guerrieri, J D4-200

AND

19295 LAB 10:15 am - 12:20 pm Th Guerrieri, J D4-200

DIGLMD 116-Introduction To Web Page Design (UC/CSU) - 3 Units

Students will learn the fundamental elements of websites, theories of web design, and how to develop a basic website.

21549 LEC 6:00 pm - 8:05 pm M Guebely, G D4-200

AND

21550 LAB 6:00 pm - 8:05 pm W Guebely, G D4-200

DIGLMD 117-Intermediate Web Page Design (UC/CSU) - 3 Units

Students will learn the advanced elements of developing an interactive website, dynamic concepts of web design, how to create an image gallery, and implementing a different style sheet for different devices and outputs in a flexible layout.

25676 LEC 6:00 pm - 8:05 pm M Guebely, G D4-200

AND

25677 LAB 6:00 pm - 8:05 pm W Guebely, G D4-200

DIGLMD 150-Introduction To Mobile Applications (UC/CSU) - 3 Units

Students will develop an understanding of the core principles necessary to design and create mobile applications. Course covers pre-production, interface design, asset behavior and user experience.

21553 LEC 3:30 pm - 5:35 pm M Guebely, G D4-200

AND

21554 LAB 3:30 pm - 5:35 pm W Guebely, G D4-200

DIGLMD 152-Digital Art (UC/CSU) - 3 Units

Students will develop an understanding of the core principles of digital art and design. Course covers the essentials of digital visual design using Photoshop and Illustrator: color theory, composition, software tools, photo manipulation and image creation.

10303 LEC 8:00 am - 10:05 am W Rochford, M M D4-200

AND

10308 LAB 10:15 am - 12:20 pm W Rochford, M M D4-200

DIGLMD 155-Mobile Application Production (UC/CSU) - 3 Units

Students will develop and build a completed mobile application. Course covers pre-production, interface design, asset behavior, user experience, and publication of a finished mobile application.

25681 LEC 3:30 pm - 5:35 pm M Guebely, G D4-200

AND

25682 LAB 3:30 pm - 5:35 pm W Guebely, G D4-200

Class No	Component	Start/End Time	Days	Instructor	Room
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Drafting

DRAFT 062-CAD For Architects (CSU) - 3 Units

This course will focus on the process of generating and managing building data during the life cycle of a building from 'cradle to cradle'. CADD (Computer Aided Drafting and Design) and BIM (Building Information Modeling) drawings can create automatically consistent and dynamic views of the building, detail design and increase the productivity, transparency and accountability.

11116	LEC	7:00 am - 9:30 am	M	Oliva, M	C2-107
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AND

11123	LAB	7:00 am - 9:30 am	W	Oliva, M	C2-107
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DRAFT 063-Cadd For Building (CSU) - 3 Units

This course covers CAD (Computer Aided Drafting) and BIM (Building Information Model) for Mechanical, Electrical and Plumbing fundamentals, as it applies to the Architecture Field.

25729	LEC	7:00 am - 9:30 am	M	Garcia, M G	C2-109
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AND

25730	LAB	7:00 am - 9:30 am	W	Garcia, M G	C2-109
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Economics

ECON 001-Principles Of Economics I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4B CSU D2

Enrollment Requirement: Prerequisite: MATH 115

Introductory course in the principles of microeconomic theory, including economic analysis of the firm and resource allocation; analysis of the laws of supply and demand; market structures of the American economy; price theory; current domestic economic problems.

13562	LEC	10:10 am - 11:35 am	TTh	Ahmad, J	C4-324
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13553	LEC	11:45 am - 1:10 pm	MW	Ahmad, J	C4-324
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13574	LEC	6:00 pm - 9:10 pm	W	STAFF, L	C4-324
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ECON 002-Principles of Economics II (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4B CSU D2

Enrollment Requirement: Prerequisite: MATH 115

A course in macroeconomics emphasizing aggregative economic analysis, including money and banking, national income determination, business fluctuations, and other topics relevant to macroeconomic analysis.

14545	LEC	10:10 am - 11:35 am	MW	Ahmad, J	C4-324
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14540	LEC	11:45 am - 1:10 pm	TTh	Ahmad, J	C4-324
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25716	LEC	1:45 pm - 4:55 pm	W	Ahmad, J	C4-324
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Education

EDUC 001-Introduction To Teaching (CSU) - 3 Units

Introduction To Teaching

10207	LEC	8:35 am - 11:45 am	F	Randall, A K	B1-223
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10193	LEC	10:10 am - 11:35 am	MW	Randall, A K	B1-223
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Class No	Component	Start/End Time	Days	Instructor	Room
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Elect Construction Maintenance

ECONMT 007-Home Theater & Commercial Audio, Video Installation Theory - 3 Units

This course offers instruction in the installation of Home Theater Video and Audio systems as well as commercial and industrial applications for audio and video technology. Upon successful completion of the course the student will have the skills to enter this area of the electrical trade.

14711	LAB	6:00 pm - 9:10 pm	TTh	Draper, K M	E2-351
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ECONMT 100-(O.S.H.A.) Safety Standards: Construction & Industry - 2 Units

This course provides instruction on industry safety and health rules as it applies to workers and employers within the construction industry. Topics such as fall protection, lock out tag out procedures, PPE, excavations, etc. are covered. Participants that meet the required hourly attendance and successfully pass the final exam will be eligible to receive their OSHA (30 hr) safety-training certificate.

28428	LEC	6:00 pm - 8:05 pm	Th	Elarton-Selig, W D	E2-136
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ECONMT 101-Electrical Craft Helper (CSU) - 4 Units

This course is designed as entry level preparation for a student interested in careers in the electrical power industry. This introductory course covers the basic fundamentals of planning, installation and maintenance of high and low voltage electrical systems. Basic functions of generation, both hydro and steam are covered. The transmission and distribution of electrical power will be reviewed. Fundamentals of electricity, identification, function, and operation of components will be surveyed. Ohms law, safety, ropes, knots, rigging, and tools required in the trade will be reviewed. Civil service exam assistance will also be covered.

14719	LEC	5:00 pm - 9:15 pm	T	Helfrich, W R	EDM TRAN
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This class does not meet on the LATTTC Campus. The off campus location is: EDM Training Facility - 2nd Floor Classroom, 11760 Truedate Street, Sun Valley 91352

14726	LEC	5:00 pm - 9:15 pm	W	Helfrich, W R	EDM TRAN
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This class does not meet on the LATTTC Campus. The off campus location is: EDM Training Facility - 2nd Floor Classroom, 11760 Truedate Street, Sun Valley 91352

14733	LEC	5:30 pm - 9:45 pm	W	Thompson, D A	CETR DIST
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This class does not meet on the LATTTC Campus. The off campus location is: Central District Headquarters, Dept. Water & Power, 1350 S. Wall Street, Los Angeles, CA 90015

14739	LEC	5:30 pm - 9:45 pm	Th	Thompson, D A	CETR DIST
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This class does not meet on the LATTTC Campus. The off campus location is: Central District Headquarters, Dept. Water & Power, 1350 S. Wall Street, Los Angeles, CA 90015

ECONMT 105-Fundamentals Of Solar Electricity (CSU) - 3 Units

Fundamentals of electric power produced by the sun. Subjects covered include generation, transmission, conversion, distribution, safety, system components, necessary tools.

14749	LEC	6:00 pm - 9:10 pm	M	Colson, A T	E2-336
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ECONMT 110-Renewable Energy Systems (CSU) - 3 Units

This course will cover energy basics, solar basics, both active and passive, solar-thermal and solar-electric, wind, hydro-power, wave and tidal power, bio-fuel and biomass resources, geothermal power, energy storage and hydrogen fuel cells. Both large and small scale, grid interactive and stand alone systems will be discussed. Energy collection, site evaluation, design analysis of various systems,

Class No **Component** **Start/End Time** **Days** **Instructor** **Room**
 material use, and methods of construction will also be covered, along with overviews of California and US energy policy and global energy use.

14755 LEC 6:00 pm - 9:10 pm T Maroufkhani, F F E2-304

ECONMT 115-Fundamentals Of D.C. Electricity (CSU) - 3 Units

This course offers study in the Fundamentals of D.C. Electricity. Subjects include: Electrical safety, the basic principles of atomic structure, electrical quantities, static electricity, magnetism, induction, resistors, series circuits, parallel circuits, and combination circuits. The proceeding resistive circuits will be analyzed using Ohm's Law, The Power Equation and Kirchoff's Voltage and Current Laws.

14811 LEC 7:00 am - 8:25 am TTh Kallo, J S E2-353
 14829 LEC 7:00 am - 8:25 am TTh Robinson, D S E2-301
 14760 LEC 6:00 pm - 9:10 pm T Aguilar, A E2-351
 14767 LEC 6:00 pm - 9:10 pm Th Sussman, D A B1-224
 14776 LEC 6:00 pm - 9:10 pm M STAFF, L E2-222
 14784 LEC 6:00 pm - 9:10 pm F Dominguez, J M E2-352
 14795 LEC 6:00 pm - 9:10 pm W Krongold, R A E2-136

ECONMT 116-Handtools And Wiring Practices (CSU) - 2 Units

This course covers the proper use of Hand Tools, Wiring Methods, Conductor Identification, Selection, Splicing and Termination. Trade Practices and an Introduction to the National Electrical Code.

14862 LAB 7:00 am - 1:30 pm F Kallo, J S E2-353
 14874 LAB 7:00 am - 1:30 pm F Robinson, D S E2-301
 14847 LAB 8:00 am - 2:30 pm Sa Lester, J B E2-301
 14834 LAB 6:00 pm - 9:10 pm MW Rand, P E2-353
 14841 LAB 6:00 pm - 9:10 pm TTh Rand, P E2-353

ECONMT 117-Elementary Circuit Practices (CSU) - 4 Units

This course offers instruction in the drawing and analysis of wiring plans, wiring diagrams, and ladder diagrams. Including the wiring of both low and high voltage circuits utilizing: push button, single pole, standard three way, coast three way, standard four way, coast four way, and master switching systems.

14878 LAB 8:35 am - 11:45 am MTWTh Kallo, J S E2-353
 14881 LAB 8:35 am - 11:45 am MTWTh Robinson, D S E2-301

ECONMT 119-Applied Calculations and Measurements (CSU) - 3 Units

This is an entry level course in electrical calculations and measurements with special emphasis on the application problems encountered in the electrical construction industry.

14890 LEC 7:00 am - 8:25 am MW Kallo, J S E2-353
 14896 LEC 7:00 am - 8:25 am MW Robinson, D S E2-301
 21547 LEC 6:00 pm - 9:10 pm F STAFF, L E2-352
 14885 LEC 3:10 hrs/wk TBA Elarton-Selig, W D ON LINE
 14905 LEC 3:10 hrs/wk TBA Elarton-Selig, W D ON LINE

Class No	Component	Start/End Time	Days	Instructor	Room
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ECONMT 120-Industrial Control Systems (CSU) - 3 Units

This course is a study of motors, circuits and devices used for controlling electric motors and the National Electrical Code covering motor installation.

14930	LEC	8:25 am - 9:50 am	MT	Maroufkhani, F F	E2-320
14923	LEC	10:20 am - 11:45 am	MT	Lester, J B	E2-320
14910	LEC	6:00 pm - 9:10 pm	M	Sussman, D A	B1-224

ECONMT 128-Industrial Control Systems Practices (CSU) - 3 Units

Enrollment Requirement: Prerequisite: ECONMT 115

This course fosters the development and application of control circuitry through the use of instructional wiring panels and lab project boards. The course covers the manual and electromagnetic control of motors using switches, pushbuttons, relays and starters for sequencing, jogging, reversing and timed control of motors and circuits.

14940	LAB	7:00 am - 8:50 am	MTWThF	Lester, J B	E2-330
25820	LAB	10:20 am - 12:10 pm	MTWThF	Maroufkhani, F F	E2-330

ECONMT 128A-Industrial Control Systems Practices A (CSU) - 1 Unit

This course fosters the development and application of control circuitry through the use of instructional wiring panels and lab project boards. The course covers the manual and electromagnetic control of motors using switches, pushbuttons, relays and starters for sequencing, jogging, reversing and timed control of motors and circuits.

10077	LAB	8:00 am - 11:10 am	Sa	Maroufkhani, F F	E2-330
10061	LAB	6:00 pm - 9:10 pm	M	Lester, J B	E2-330
10070	LAB	6:00 pm - 9:10 pm	W	Lester, J B	E2-330

ECONMT 128B-Industrial Control Systems Practices B (CSU) - 1 Unit

This course is the second module of the 128 A, B, C series and continues to foster the development and application of control circuitry through the use of instructional wiring panels and lab project boards. The course includes manual and electromagnetic control of motors using switches, pushbuttons, relays and starters for sequencing, jogging, reversing and timed control of motors and circuits.

10102	LAB	8:00 am - 11:10 am	Sa	Maroufkhani, F F	E2-330
10085	LAB	6:00 pm - 9:10 pm	M	Lester, J B	E2-330
10092	LAB	6:00 pm - 9:10 pm	W	Lester, J B	E2-330

ECONMT 128C-Industrial Control Systems Practices C (CSU) - 1 Unit

This course is the final module of the 128 A, B, C series and finalizes the development and application of control circuitry through the use of instructional wiring panels and lab project boards. The course includes manual and electromagnetic control of motors using switches, pushbuttons, relays and starters for sequencing, jogging, reversing and timed control of motors and circuits.

10129	LAB	8:00 am - 11:10 am	Sa	Maroufkhani, F F	E2-330
10109	LAB	6:00 pm - 9:10 pm	M	Lester, J B	E2-330
10119	LAB	6:00 pm - 9:10 pm	W	Lester, J B	E2-330

Class No	Component	Start/End Time	Days	Instructor	Room
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ECONMT 129-Fundamentals Of Alternating Current - 3 Units

This course offers a study in operating principles of electrical power systems, the theory of A.C. generators and motors, load calculations, efficiencies, power factor correction, and calculations related to these theories.

14967	LEC	8:25 am - 9:50 am	WTh	Maroufkhani, F F	E2-320
28419	LEC	6:00 pm - 9:10 pm	Sa	Aguilar, A	E2-353
28425	LEC	6:00 pm - 9:10 pm	F	Corech, H H	E2-302
14959	LEC	10:20 pm - 11:45 pm	WTh	Lester, J B	E2-320

ECONMT 130-Principles Of Industrial Electric Power - 3 Units

This course offers a study in operating principles and maintenance procedures and code requirements for electrical power systems. Theory of D.C. and A.C. generators and motors, load calculations, efficiency and power factor correction are also covered.

14980	LEC	8:45 am - 10:10 am	MW	Iadevaia, R E	E2-302
14975	LEC	10:10 am - 11:35 am	MW	Pelayo, H	E2-302

This Section is for Electrical Students in the day electricians program. Linemen students should not enroll in this section. Look for the section with the note for Lineman students.

ECONMT 136-Industrial Power Applications - 3 Units

This course offers a practical study on shop experience in testing, servicing and repairing industrial plant electrical equipment, connection and operation of generators, as well as motors and their control systems.

14988	LAB	7:00 am - 10:10 am	MWF	Pelayo, H	E2-304
14995	LAB	10:20 am - 1:30 pm	MWF	Iadevaia, R E	E2-304

ECONMT 137-Industrial Electronic Control Systems - 3 Units

In this course fundamental electronic and semiconductor theory as well as applications of electronic devices to industrial control systems are studied. Boolean algebra, logic circuits and numbering systems as they used in industrial controls are examined. Transducers, photoelectric limit switches and other industrial devices are studied.

15001	LEC	8:45 am - 10:10 am	TTh	Iadevaia, R E	E2-304
14997	LEC	10:10 am - 11:35 am	TTh	Pelayo, H	E2-302

ECONMT 138-Applications Of Electrical And Electronics Devices (CSU) - 2 Units

Identification and operational tests on various types of electrical and electronic equipment, including transformers, electronic motor speed control systems and other industrial control devices.

15004	LAB	7:00 am - 10:10 am	TTh	Pelayo, H	E2-304
15008	LAB	10:20 am - 1:30 pm	TTh	Iadevaia, R E	E2-302

ECONMT 140-Construction Wiring Principles And Practices - 3 Units

Enrollment Requirement: Prerequisite: ECONMT 130 and ECONMT 136

Corequisite: ECONMT 167

This class teaches the wiring of electrical systems, including: layout, construction methods, code requirements, installation standards, and best practices.

15014	LEC	7:00 am - 8:25 am	MW	Jackson, R E	E2-351
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
15022	LEC	7:00 am - 8:25 am	MW	Goluza, B	E2-351

ECONMT 142-Basic Programmable Logic Controls (Plc) - 1 Unit

Introduction to Basic Programmable Logic Controllers, Programming Devices, Ladder Diagrams and Designing PLC Programs for Industrial Processes.

15039	LAB	7:00 am - 10:10 am	F	Iadevaia, R E	
15030	LAB	11:40 am - 1:05 pm	TTh	Pelayo, H	
15027	LAB	1:00 pm - 4:10 pm	F	Ramirez, R	

ECONMT 150-Introduction To The Electrical Codes - 3 Units

Enrollment Requirement: Prerequisite: ECONMT 130 and ECONMT 136

Corequisite: ECONMT 140

This is a study and interpretation of the National Electrical Code, local ordinances, and regulations covering wiring installations and principal circuit requirements.

15042	LEC	7:00 am - 8:25 am	TF	Jackson, R E	E2-336
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15045	LEC	7:00 am - 8:25 am	TF	Goluza, B	E2-351
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ECONMT 159-Programmable Logic Controls (Plc) (CSU) - 4 Units

Programmable Logic Controller wiring, programming, and troubleshooting techniques are learned and practiced in a hands-on laboratory environment.

15048	LEC	6:00 pm - 7:25 pm	TTh	Hogue, D	
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ECONMT 167-Electrical Construction Wiring Techniques - 3 Units

Students are taught and practice electrical rough-in methods, while emphasizing safe working methods and compliance with Electrical Codes and trade standards.

15060	LAB	8:25 am - 11:35 am	MWF	Goluza, B	E2-337
15054	LAB	8:35 am - 11:45 am	MWF	Jackson, R E	E2-337

ECONMT 168-Installation Of Electrical Wiring - 2 Units

Students learn to, and practice, calculating and laying out interior electrical conduit and cable wiring systems, followed by practical installations, including rough-in and finishing techniques.

15064	LAB	7:00 am - 10:10 am	Th	Jackson, R E	E2-337
And	LAB	11:55 am - 1:20 pm	MW	Jackson, R E	E2-337
15070	LAB	8:35 am - 11:45 am	T	Goluza, B	E2-337
And	LAB	11:55 am - 12:45 pm	MWF	Goluza, B	E2-337

ECONMT 169-Alternating Current Practices - 2 Units

This course offers a study in the principles of Alternating Current, installation of components in AC circuits, and the response of circuits to AC excitation.

15074	LAB	9:00 am - 10:10 am	MTWThF	Lester, J B	E2-320
15082	LAB	12:20 pm - 1:30 pm	MTWThF	Maroufkhani, F F	E2-320

ECONMT 171-Electrical Codes And Ordinances I - 3 Units

Basic electrical codes and ordinances are the focus of this course. General codes, wiring methods and fittings, and circuit requirements specified in the various ordinances are reviewed.

15088	LEC	6:00 pm - 9:10 pm	M	Dominguez, J M	E2-302
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Class No	Component	Start/End Time	Days	Instructor	Room
15094	LEC	6:00 pm - 9:10 pm	T	Maalouf, E N	E2-302

ECONMT 172-Electrical Codes And Ordinances II (RPT 3) - 3 Units

Advanced electrical codes and ordinances are the focus of this course. General codes, wiring methods and fittings, and circuit requirements specified in the various ordinances are reviewed.

15099	LEC	6:00 pm - 9:10 pm	M	Duncan, A	E2-120
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ECONMT 173-Electrical Mathematics I - 3 Units

This is an entry level course in electrical calculations and measurements with special emphasis on the application problems encountered in the electrical construction industry.

15102	LEC	6:00 pm - 9:10 pm	Th	Krongold, R A	E2-352
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15114	LEC	6:00 pm - 9:10 pm	T	Pelayo, H	E2-352
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15121	LEC	6:00 pm - 9:10 pm	M	Ramirez, R	E2-301
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ECONMT 174-Electrical Mathematics II - 3 Units

Topics covered in this course are problems relating to A.C. power applications, use of the scientific calculator, percentage ratio and proportions, wire sizing, voltage drops, energy and efficiency calculations, trigonometric functions, phasor diagrams, A.C. single and poly-phase circuits, transformers, star and delta connections and mathematics for logic controls.

15135	LEC	10:30 am - 1:40 pm	F	STAFF, L	E2-233
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15123	LEC	6:00 pm - 9:10 pm	W	Maalouf, E N	E2-302
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ECONMT 177-Electric Motor Control I - 3 Units

This course studies basic motor control fundamentals including the basic functions of control. Magnetic principles of D.C. and A.C. motors, types of motors, motor selection fundamentals are reviewed. Topics covered also include definitions for controller components and symbols, familiarization with N.E.M.A. standards and review of one-line, wiring and schematic diagrams.

15145	LEC	6:00 pm - 9:10 pm	M	Winston, R	E2-320
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23624	LEC	6:00 pm - 9:10 pm	F		E2-351
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3 of 30 Apprenticeship Program

ECONMT 178-Electric Motor Control II - 3 Units

This course focuses on a brief review of material covered in Electric Motor Control I and the selection and application of D.C. and A.C. controllers with emphasis on the A.C. devices. Study areas include manual, magnetic, across-the-line starters, as well as most forms of reduced voltage starters including the auto transformer, primary resistor, star-delta, part-winding and wound rotor type reduced voltage starters. Synchronous, multi-speed starters and the many methods of decelerating and braking and static components are discussed.

15152	LEC	6:00 pm - 9:10 pm	T	Winston, R	E2-232
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ECONMT 181-Basic Wiring Practices - 3 Units

This course contains the study of basic electrical diagrams; such as, wiring plans, wiring diagrams, and ladder diagrams. Topics of discussion include: Architectural symbols and drawings, reading and interpreting plans and specifications, as well as the drawing of basic circuits.

15157	LEC	6:00 pm - 9:10 pm	T	Ramirez, R	E2-301
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15161	LEC	6:00 pm - 9:10 pm	M	Ramirez, R	E2-301
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Class No	Component	Start/End Time	Days	Instructor	Room
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ECONMT 182-Basic Diagram And Circuit Practices - 1 Unit

This course provides practical shop practice in the wiring of signal, communication and control circuits. Connection of device mechanisms such as, lights, buzzers and relays are specifically reviewed.

15178	LAB	6:00 pm - 9:10 pm	Th	Ramirez, R	E2-301
15185	LAB	6:00 pm - 9:10 pm	W	Ramirez, R	E2-301

ECONMT 183-Residential Electric Wiring - 3 Units

This course covers the design and layout of residential electrical wiring in accordance with the National Electrical Code and recognized best trade practices.

20688	LEC	6:00 pm - 9:10 pm	F	Nasrallah, G B	E2-320
25821	LEC	6:00 pm - 9:10 pm	W	Nasrallah, G B	E2-233

ECONMT 184-Motor Control Principles And Practices - 3 Units

This course will examine the testing, adjusting, servicing and connecting motors, generators and associated controllers. Reduced voltage starters and other motor starting techniques will be studied.

15200	LAB	6:00 pm - 9:10 pm	MW	Pelayo, H	E2-304
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ECONMT 186-Industrial Electrical Principles And Practices - 3 Units

This course content includes the use of measuring instruments, connecting and testing transformer banks and connecting and testing industrial electronic control devices. This course discusses single phase and three phase transformers.

10023	LAB	6:00 pm - 9:10 pm	TTh	Goluza, B	E2-304
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ECONMT 187-Advanced Programmable Controllers - 4 Units

Programmable Logic Controller lecture and laboratory class, including Sequencers, Shift Registers, Analog I/O, and Subroutines, taught using RSLogix software.

10028	LEC	6:00 pm - 7:25 pm	MW	Nieves, P H	
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AND

10031	LAB	7:35 pm - 9:40 pm	MW	Nieves, P H	
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ECONMT 193-Conduit Bending And Calculations - 3 Units

his class teaches bending cutting and threading of conduits: EMT (Electrical Metallic Tubing), rigid, and IMC (Intermediate Metal Conduit) and the calculations that are included in these operations. Conduit will be bent with hand and hydraulic benders.

20295	LAB	7:00 am - 1:30 pm	Sa	Jackson, R E	E2-337
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ECONMT 193A-Conduit Bending Laboratory - 1 Unit

Enrollment Requirement: Corequisite: ECONMT 168

This class practices the cutting and bending of electrical conduits, and the necessary calculations included in these operations. EMT conduit will be bent with hand benders.

10137	LAB	11:55 am - 1:20 pm	TTh	Jackson, R E	E2-337
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10150	LAB	11:55 am - 1:20 pm	TTh	Goluza, B	E2-337
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ECONMT 197-Low Voltage Electrical Practices - 3 Units

This course offers instruction in the installation, termination, testing and documentation of low voltage systems, such as lighting, communication, telephone, data, control systems, and similar low

Class No	Component	Start/End Time	Days	Instructor	Room
voltage applications.					
10048	LAB	6:00 pm - 9:10 pm	MW	Robinson, D S	E2-351

ECONMT 199-Journeyman Electrician Exam Preparation - 3 Units

This course will prepare the student for the State of California Electricians' Certification Examination. The distance education version of the class uses the Internet, World Wide Web and personal e-mail.

10054	LAB	6:00 pm - 9:10 pm	Th	Kallo, J S	E2-120
And	LAB	6:00 pm - 9:10 pm	T	Robinson, D S	E2-120

ECONMT 205-Solar Energy Installation & Maintenance Principles And Practices - 2 Units

This course is designed for individuals who have the basic electrical and mechanical skills of an energy technician or electrician and are looking to expand into the renewable energy field. This is a hands on class to develop the fundamental principles and practices for installation and maintenance of solar, wind, and similar renewable energy systems. This course covers basic planning, installation, and maintenance of the necessary components for various renewable energy systems.

25822	LAB	8:00 am - 2:30 pm	Sa	Colson, A T	B1-151
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ECONMT 941-Cooperative Education -Electrical Construction & Maintenance (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

19288	LEC	4:25 hrs/wk	TBA	Blumenfeld, S	E2-104
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Please send your best email address to Blumens@lattc.edu once you enroll in this Co-Op Ed class.

Electronics

ELECTRN 002-Introduction To Electronics (CSU) - 3 Units

Introduction To Electronics

25396	LEC	7:00 am - 10:10 am	Th	Zhang, M	C4-301
11158	LEC	12:35 pm - 3:45 pm	W	Botterud, S J	C4-366
11175	LEC	6:00 pm - 9:10 pm	M	Largaespada, R	C4-302

Electronics Technology

ETNTLGY 150-Soldering Surface Mount Technology - 3 Units

This course provides an introduction of through hole soldering technology as well as principles of surface mount rework, show the range of specific equipment used in that process and provide a framework for learning about various rework methods. Recommended procedures for removal and replacement of surface mount chip components are also covered.

12774	LEC	7:00 am - 9:05 am	W	Botterud, S J	C4-301
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12785	LAB	9:15 am - 12:25 pm	W	Botterud, S J	C4-204
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ETNTLGY 151-Dc Theory And Circuit Fundamentals - 3 Units

Class No	Component	Start/End Time	Days	Instructor	Room
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Instruction is given in basic electrical concepts, electron theory, Ohm's Law, Kirchoffs Laws, series circuits, Parallel circuits, combination circuits, principles of magnetism; and the care, use, and construction of basic meters for voltage, current, and resistance measurements. Problems illustrating accuracy necessary in measurements are given.

12791	LEC	7:00 am - 8:20 am	T	Roosta, S A	C4-366
And	LEC	8:10 am - 9:40 am	Th	Roosta, S A	C4-366

Electronics Technology Section

ETNTLGY 152-Dc Theory And Circuit Fundamentals Lab (CSU) - 2 Units

Instruction is given in constructing basic electrical circuits. Series, parallel and series/parallel circuits are constructed and troubleshot to understand the concept of troubleshooting techniques. Problems illustrating accuracy necessary in measurements are given.

12798	LAB	8:30 am - 12:05 pm	T	Roosta, S A	C4-366
And	LAB	9:50 am - 12:25 pm	Th	Roosta, S A	C4-366

ETNTLGY 153-Applied Dc Calculations - 1 Unit

This course offers a review on basic arithmetic including addition, subtraction, multiplication, division, fractions, decimals, square roots, signed numbers, powers of ten, an introduction to algebra, and problems solving Ohm's Law and power calculations. Instruction is also provided in algebra, calculators, logarithms, graphs, phasers, and basic trigonometry as used in electronics.

12806	LEC	7:00 am - 7:50 am	Th	Roosta, S A	C4-366
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ETNTLGY 157-Semiconductors Devices And Applications (CSU) - 3 Units

This course imparts knowledge of semiconductors, electron devices including diodes, transistors, and their application in electronic circuits such as Amplifiers, Switches, Power Supplies, Oscillators, and Integrated Circuits.

12813	LEC	7:00 am - 8:25 am	MW	Roosta, S A	C4-324
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ETNTLGY 158-Semiconductors Devices And Electronics Laboratory (CSU) - 3 Units

This is a semiconductor devices laboratory course. It includes lab exercises using semiconductor devices including diodes, transistors, and their application in electronic circuits such as Amplifiers, Switches, Power Supplies, Oscillators, and Integrated Circuits.

12821	LAB	8:35 am - 1:25 pm	MW	Roosta, S A	C4-366
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ETNTLGY 159-Digital Circuits And Applications (CSU) - 3 Units

This is an introductory course in digital electronics and applications. The course covers the number systems, including the decimal, binary, octal, and hexadecimal number systems. The topics covered include the characteristics of TTL and CMOS logic families, combinational logic circuits, minimizing logic circuits, minimizing logic circuits using Boolean Operations and Karnaugh maps, encoders and decoders, sequential logic devices such as flip-flops, counters, shift registers, and memory devices.

12827	LEC	7:00 am - 8:25 am	TTh	Botterud, S J	C4-364
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ETNTLGY 160-Digital Circuits And Applications Lab (CSU) - 2 Units

This course is designed to provide students with the fundamentals of digital circuits and their applications. Lab activities include the characteristics of TTL and CMOS logic families, combinational logic, minimizing logic circuits using Boolean operations and Karnaugh maps, encoders and decoders, sequential logic devices such as flip-flops, counters, shift registers, and memory devices.

Class No	Component	Start/End Time	Days	Instructor	Room
12835	LAB	8:35 am - 11:45 am	TTh	Botterud, S J	C4-364

ETNTLGY 254-Computer Applications For Electronics Technology - 3 Units

This course introduces students to computer hardware, software related technology and their uses impact on society and education; hands-on experience with applications of software, such as Excel, Word, Power Point with an emphasis on electronics applications software such as Electronic Work Bench and VISIO.

12868	LEC	7:00 am - 9:05 am	M	Botterud, S J	C4-302
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AND

12873	LAB	9:15 am - 12:25 pm	M	Botterud, S J	C4-302
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Engineer-Operation/Maintenance

OPMAINT 228-Steam Plant Operation I - 6 Units

Related engineering information concerning high pressure steam plants in office buildings and industrial establishments are studied in this course. Emphasis is given to steam power plant, use of steam tables, types of boilers, construction of boilers, boiler accessories, settings for combustion equipment and heating surfaces; operation of steam boilers and the combustion of fuels.

13181	LEC	6:00 pm - 9:10 pm	MW	Martinov, V	B1-208
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OPMAINT 229-Steam Plant Operation II - 6 Units

Instruction is given in steam engines, valve operating mechanisms and governors, and operating characteristics of steam engines. Course covers steam turbines, pumps, and auxiliary power plant equipment, steam plant efficiencies, boiler water treatment, troubleshooting, and power transmission. Completion of this second course prepares trainee to take Los Angeles City examination for steam engineer's license.

13188	LEC	6:00 pm - 9:10 pm	TTh	Brady, P A	E2-320
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Engineering Graphics & Design

EGD TEK 101-Engineering Graphics (UC/CSU) - 3 Units

This introductory course covers the fundamentals of traditional drafting, descriptive geometry, orthographic projection, graphical communication of technical engineering information and Computer-Aided Drafting (CAD). Topics include freehand drawing, lettering, and theory of orthographic and multi-view projections as well as Coordinate dimensioning and geometric dimensioning and tolerancing (GD&T). An introduction to 2-D CAD software package is presented and instruction includes fundamental tools to be able to create and edit basic drawings by learning and understanding the User Interface of the software. Essential skills developed include creating templates, title blocks, layers, drawing basic geometric objects, using parametric tools, and dimensioning.

22178	LEC	4:00 pm - 6:05 pm	Th	Navarro, A	B1-164C
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AND

22179	LAB	6:15 pm - 8:20 pm	Th	Navarro, A	B1-164C
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Engineering, General

ENG GEN 101-Introduction To Science, Engineering And Technology (UC/CSU) - 2 Units

This course explores the branches of engineering and engineering technologies, the functions of an

Class No	Component	Start/End Time	Days	Instructor	Room
engineer and a technologist, and the industries in which they work. Explains the educational pathways and effective strategies for students to reach their full academic and career potentials, by thorough understanding of academia and academic success strategies. Presents an introduction to the methods and tools of engineering problem solving and design including the interface with society, professional and engineering ethics, and lifelong learning. Develops communication skills pertinent to the engineering and engineering technologies professions, through hands-on project(s) and teamwork in diverse environments.					

22176	LEC	9:00 am - 10:05 am	T	Navarro, A	C4-420
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AND

22177	LAB	10:15 am - 12:20 pm	T	Navarro, A	C4-420
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11820	LEC	5:00 pm - 6:05 pm	T	Navarro, A	C4-420
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AND

11829	LAB	6:15 pm - 8:20 pm	T	Navarro, A	C4-420
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ENG GEN 122-Programming And Problem-Solving In Matlab (UC/CSU) - 3 Units**Enrollment Requirement:** Prerequisite: MATH 265

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics.

10462	LEC	5:00 pm - 7:05 pm	M	Navarro, A	B1-164C
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AND

10473	LAB	5:00 pm - 8:10 pm	W	Navarro, A	B1-164C
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ENG GEN 131-Statics (UC/CSU) - 3 Units**Enrollment Requirement:** Prerequisite: MATH 265 and PHYSICS 101

This is a first course in engineering mechanics. Students will learn about two and three dimensional analysis of force systems on particles and rigid bodies in equilibrium. Topics also include static analysis of trusses and beams, and determination of center of gravity, centroids, friction, and moments of inertia of area and mass.

11946	LEC	10:15 am - 11:20 am	MW	Navarro, A	C4-420
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AND

11954	LAB	11:30 am - 12:55 pm	MW	Navarro, A	C4-420
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ENG GEN 241-Strength Of Materials (UC/CSU) - 3 Units**Enrollment Requirement:** Prerequisite: ENG GEN 131

Plane stress-strain, axial, torsional, bending and shear stresses are studied, including combined loads, Mohr's Circle, principal stresses and strains, and pressure vessels. Generalized Hooke's Law, material properties, allowable stresses, factor of safety, statically indeterminate members, shear and moment diagrams; moment-area, and slope by double integration, singularity functions, superposition, moment-area, and Castigliano methods are also studied. Topics include thermal expansion, indeterminate forms and column buckling.

12023	LEC	1:15 pm - 2:20 pm	MW	Navarro, A	C4-420
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AND

12031	LAB	10:00 am - 1:10 pm	W	STAFF, L	B3-301
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Class No	Component	Start/End Time	Days	Instructor	Room
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English**ENGLISH 072-English Bridge (NDA) - 1 Unit**

This intensive, one-unit course prepares the student to succeed in English 28 or 101 by offering an intensive review of grammar, paragraph and essay structure, and rhetorical strategies.

25505	LAB	9:10 am - 10:00 am	TTh	Blake, G B	F5-221
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This is an UMOJA and PUENTE lab. If you're interested in adding, please email Prof. Blake at BlakeGB@lattc.edu

25818	LAB	11:00 am - 1:05 pm	T	Moreno, L M	TBA 1
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Please email Prof. Moreno if you have additional questions about the lab: morenolm@lattc.edu

25239	LAB	11:45 am - 12:35 pm	MW	Doss, H M	F5-221
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This lab is paired with English 101 #17291 T08. The instructor will give you an add code for the lab on the first day of class.

25241	LAB	11:45 am - 12:35 pm	TTh	Mancia, R A	F5-408
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This lab is paired with English 101 #17356. The instructor will give you an add code on the first day of class.

25341	LAB	1:25 pm - 2:15 pm	MW	Moreno, L M	F5-408
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This Lab is paired with an English 101 which meets on Wednesdays at 1:20-2:45. Enrollment in both is required. Instructor will give you an add code on the first day of class.

25329	LAB	4:35 pm - 5:25 pm	TTh	Mendez, A E	F5-408
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25328	LAB	4:35 pm - 5:25 pm	TTh	Mendez, A E	F5-210
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This lab is paired with English 101 #17281. Enrollment in both the lecture and lab is required. Prof. Armando Mendez will provide you with an add code on the first day of class.

25337	LAB	6:00 pm - 8:05 pm	W	Cruz, C A	F5-408
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This lab is paired with English 101#17327. Enrollment in both is required.

25352	LAB	6:00 pm - 8:05 pm	Th	Sowter, S V	F5-221
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This lab is paired with an English 101 that meets on Tuesdays from 6-9:05PM. Enrollment in both is required.

ENGLISH 100-Accelerated Prep: College Writing (NDA) - 3 Units

This class prepares students for academic reading, critical thinking, and writing expected in transfer and associate-degree classes. Students plan, draft, revise, and edit compositions based on college-level readings that cover topics that challenge students' thinking and provide an intellectual background for the assignments. This course prepares students for English 101.

11132	LEC	8:00 am - 10:05 am	T	Mancia, R A	F5-408
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This class meets twice a week and is paired with English 100 #23695

AND

23695	LAB	8:00 am - 10:05 am	Th	Mancia, R A	F5-408
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This class meets twice a week and is paired with English 100 #11132

11369	LEC	8:00 am - 10:05 am	M	Mancia, R A	F5-408
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This class meets twice a week and is paired with English 100 #23692

AND

23692	LAB	8:00 am - 10:05 am	W	Mancia, R A	F5-408
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This class meets twice a week and is paired with English 100 #11369

11044	LEC	10:10 am - 12:15 pm	M	Mendez, A E	E5-303
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This class has a lecture component and lab #23650 with homework component. This is 3 units, and the class meets 4 hours a week.

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23650	LAB	10:10 am - 12:15 pm	W	Mendez, A E	E5-303
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11201	LEC	11:00 am - 1:05 pm	T	Dolan, T M	B1-224
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This class meets 2 X week: lecture and lab with homework. Even though this is a 3 unit class, you will have 4 hours in class to practice writing and analyze readings.

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Class No	Component	Start/End Time	Days	Instructor	Room
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AND

23699	LAB	11:00 am - 1:05 pm	Th	Dolan, T M	B1-224
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11164	LEC	1:20 pm - 3:25 pm	M	Dolan, T M	B1-224
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This class meets 2 X week. Monday is lecture. Wednesday is lab with homework. Even though this is a 3 unit class, you will have 4 hours in class to practice writing and analyze readings.

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23693	LAB	1:20 pm - 3:25 pm	W	Dolan, T M	B1-224
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24077	LEC	1:20 pm - 3:40 pm	M	Mendez, A E	F5-210
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AND

24078	LAB	1:20 pm - 3:25 pm	W	Mendez, A E	F5-210
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11242	LEC	4:30 pm - 6:35 pm	W	Dolan, T M	B1-224
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This class meets 2 X week: lecture and lab with homework. Even though this is a 3 unit class, you will have 4 hours in class to practice writing and analyze readings.

AND

23700	LAB	6:45 pm - 8:50 pm	W	Dolan, T M	B1-224
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11064	LEC	5:00 pm - 7:05 pm	M	Viliesid, C N	F5-210
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AND

23697	LAB	7:15 pm - 9:20 pm	M	Viliesid, C N	F5-210
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ENGLISH 101-College Reading And Composition I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC-1A CSU-A2

Enrollment Requirement: Prerequisite: English 028 or Placement in E1 or E2 or E3 or E4 or E5 or E6 or E8 or E9 or E10 or E12 or E13 or E14

This is a college-level freshman composition course, which focuses on expository writing and argumentation and requires the writing of a minimum of 6000 words in essays and a research paper. Students study a variety of texts written at the college level, including literature, that reflect current academic concerns relating to issues of language, ethnicity, class, gender, identity, psychology, and cultural studies. The course is intended for students who plan to transfer to a four-year college or university.

17289	LEC	8:35 am - 11:45 am	F	Daniels, J C	F5-221
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19979	LEC	8:35 am - 10:00 am	TTh	STAFF, L	F5-212
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29191	LEC	10:10 am - 11:35 am	TTh	Blake, G B	F5-221
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17284	LEC	10:10 am - 11:35 am	TTh	Shakir, R N	E5-303
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17291	LEC	10:10 am - 11:35 am	MW	Doss, H M	F5-221
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This is an English 101 Enhanced and is paired with an English 72 Lab, which is taught by the same instructor. Enrollment in both sections is required.

This section's theme is "Implicit Bias"

17356	LEC	10:10 am - 11:35 am	TTh	Mancia, R A	F5-408
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This class requires enrollment in an English 72 Lab. Both classes are taught by the same instructor. Have questions? Please contact Prof. Roberto Mancia at ManciaRA@lattc.edu

This section's theme is "Social Justice"

17280	LEC	11:45 am - 1:10 pm	MW	Dolan, T M	B1-224
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17287	LEC	11:45 am - 1:10 pm	TTh	Shakir, R N	F5-107
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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
17281	LEC	3:00 pm - 4:25 pm	TTh	Mendez, A E	F5-408
This section's paired with an English 72 Lab. Registration in both sections is required. This section's theme is "Social Justice"					
17319	LEC	6:00 pm - 9:10 pm	Th	Gonzalez, S G	F5-120
17327	LEC	6:00 pm - 9:10 pm	M	Cruz, C A	F5-408
This section is paired with an English 72 lab. Enrollment in both is required. This section's theme is "Higher Education and Equity"					
20740	LEC	6:00 pm - 9:10 pm	T	Sowter, S V	F5-408
This English 101 is paired with an English 72 Lab, which meets on Thursdays from 6-8PM.					
17315	LEC	3:10 hrs/wk	TBA	Blake, G B	ON LINE
This section's theme is "Women in Comic Books"					
17335	LEC	3:10 hrs/wk	TBA	Mancia, R A	ON LINE
20158	LEC	3:10 hrs/wk	TBA	Ortiz, J I	ON LINE
20775	LEC	3:10 hrs/wk	TBA	Ortiz, J I	ON LINE

ENGLISH 102-College Reading And Composition II (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 1B 3B CSU A3 C2

Enrollment Requirement: Prerequisite: English 101

English 102 develops reading, writing, and critical thinking skills beyond the level achieved in English 101 and requires the writing of a minimum of 10,000 words in essays and a research paper throughout the semester. It emphasizes logical reasoning, analysis, and strategies of argumentation using literature and literary criticism.

19519	LEC	10:10 am - 11:35 am	TTh	STAFF, L	B1-215
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18299	LEC	3:00 pm - 4:25 pm	TTh	Cruz, C A	F5-215
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English 102 is equivalent to English 103 (critical thinking) for transfer. See a counselor for further explanation.

22891	LEC	6:00 pm - 7:25 pm	MW	Sowter, S V	F5-221
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This class is equivalent to English 103. Please see Counselor Eboni McDuffie in Aspen Hall 5th floor for more information

ENGLISH 103-Composition And Critical Thinking (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 1B CSU A3

Enrollment Requirement: Prerequisite: English 101

This course helps students develop critical thinking, reading, and writing skills beyond the level achieved in English 101 with an emphasis on logical reasoning, analysis, argumentative writing skills, and research strategies with a minimum of 10,000 words of student writing submitted over the semester.

18431	LEC	10:10 am - 11:35 am	TTh	Cruz, C A	F5-215
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23752	LEC	1:05 pm - 2:30 pm	MW	O Kane, J R	F5-212
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18429	LEC	1:20 pm - 2:45 pm	TTh	Ahmed, A A	F5-221
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18437	LEC	3:15 pm - 4:40 pm	TTh	Sowter, S V	F5-221
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18433	LEC	6:00 pm - 9:10 pm	Th	Gregory, E A	F5-210
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Class No	Component	Start/End Time	Days	Instructor	Room
19931	LEC	6:00 pm - 9:10 pm	W	Foster, L I	F5-212
19926	LEC	6:00 pm - 9:10 pm	T	Villani, F J	F5-212
18435	LEC	3:10 hrs/wk	TBA	Moreno, L M	ON LINE
18436	LEC	3:10 hrs/wk	TBA	Moreno, L M	ON LINE

ENGLISH 203-World Literature I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

Enrollment Requirement: Prerequisite: English 101

In this course, students read key works and ideas of the Western world, the Middle East, Africa, and Asia from antiquity to the seventeenth century. The course requires students to compare readings from different countries and to analyze poetic forms and literary themes significant to the cultural and social mores of the respective literary works.

18498	LEC	3:10 hrs/wk	TBA	Viliesid, C N	F5-210
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ENGLISH 205-English Literature I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

Enrollment Requirement: Prerequisite: English 101

This survey of English literature begins with works from the Middle Ages, proceeds to poetry and plays from the Renaissance, and continues to the decline of neoclassicism in the eighteenth century, with special emphasis on major writers and works. Students will write critical papers.

18505	LEC	3:10 hrs/wk	TBA	Moreno, L M	ON LINE
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ENGLISH 207-American Literature I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

Enrollment Requirement: Prerequisite: English 101

This course introduces American writers and writings from colonial times to 1865. Besides working with major writers, students will become acquainted with writers who suggest the diversity of subject and opinion in American literature.

18510	LEC	3:05 hrs/wk	TBA	Shakir, R N	ON LINE
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Environmental Science

ENV SCI 001-Introduction to Environmental Science (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 5A CSU B1

Introduction to Environmental Science

18547	LEC	9:00 am - 12:10 pm	Sa	Briones Ortega, R	F5-406
19520	LEC	9:00 am - 12:10 pm	F	Briones Ortega, R	F5-406

Fashion Design

FASHDSN 137-Bustier Creation (CSU) - 2 Units

Enrollment Requirement: Prerequisite: FASHDSN 130 or FASHDSN 239 AND FASHDSN 111 or FASHDSN 222

Research historical bustier (corset foundation) designs and construction methods and adapt them to create currently fashionable bustier. Fundamentals of evening dress foundation.

Class No	Component	Start/End Time	Days	Instructor	Room
13731	LAB	8:35 am - 3:05 pm	Sa	Melin, L A	D4-102

FASHDSN 138-Tailoring Techniques For Ready To Wear (CSU) - 2 Units

The objective of this course is to advance the tailoring skills of fashion design students. Instruction will be given on preparation and cutting of fabric, basic hand stitching, the use of steam pressing equipment, and basic elements of tailored apparel.

13736	LAB	11:50 am - 4:05 pm	F	Lee, A D	D4-106
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FASHDSN 147-Fashion Show Production (CSU) - 2 Units

Instruction is given on developing a theme and overall concept for presenting a fashion show. Topics include history of fashion presentations, model selection, fitting, stage design and execution plus behind the scenes production of a department fashion show.

13782	LEC	12:00 pm - 1:25 pm	F	Duarte, A S	D4-236
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AND

13786	LAB	1:25 hrs/wk	TBA	Duarte, A S	D4-236
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FASHDSN 207-Shoe And Accessories Design And Construction Level I (CSU) - 3 Units

In this introductory course, students will learn the fundamentals of sewing with leather as it relates to personal accessories and shoe design and construction. Students will fabricate a belt, a simple wallet, a handbag, a pair of sandals, a pair of heels, and a pair of lace-up shoes. Students will learn how to prepare leather for construction, and will be exposed to sewing both by hand and by machine. No prior sewing experience required.

25672	LAB	6:00 pm - 9:10 pm	TTh	STAFF, L	D4-205
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FASHDSN 209-Historical Costume Research - 3 Units

Enrollment Requirement: Prerequisite: ENGLISH 101

This class will instruct students on how to identify key silhouettes across eras through learning how to research using archives, library resources, and on-line databases. Students will gain an appreciation for the relationship between fashion, politics, culture and technology. Will also gain an understanding of period costume on stage and in film.

25673	LEC	6:00 pm - 9:10 pm	M	STAFF, L	D4-236
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FASHDSN 222-Sample Making And Design I - 2 Units

The fundamentals of garment construction using industrial power machines. Students will create a portfolio which demonstrates basic sewing techniques.

13803	LAB	8:35 am - 3:05 pm	Sa	Drebskaya, F	D4-130
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13792	LAB	6:00 pm - 9:10 pm	TTh	Brooks, M L	D4-234
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FASHDSN 223-Sample Making And Design II - 2 Units

Construction of selected garments for more advanced construction problems. Cutting and constructing blouses, shirt, pants and lined jacket.

13818	LAB	8:35 am - 3:05 pm	Sa	Drebskaya, F	D4-130
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13811	LAB	6:00 pm - 9:10 pm	TTh	Brooks, M L	D4-234
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FASHDSN 224-Sample Making And Design III - 2 Units

Students receive instruction on the theory of color, line and proportion. Selected soft dressmaker type coats, suits, vests, blouses, and dresses are made.

Class No	Component	Start/End Time	Days	Instructor	Room
13830	LAB	8:35 am - 3:05 pm	Sa	Drebskaya, F	D4-130
13823	LAB	6:00 pm - 9:10 pm	TTh	Brooks, M L	D4-234

FASHDSN 225-Pattern Making And Design I - 2 Units

Entry level class offering instruction in development of a basic block, test fitting, and additional basic pattern making fundamentals.

13842	LAB	8:35 am - 3:05 pm	Sa	Nichols-Cox, M	D4-331
13835	LAB	6:00 pm - 9:10 pm	MW	Brooks, M L	D4-105

FASHDSN 226-Pattern Making And Design II - 2 Units

Enrollment Requirement: Prerequisite: FASHDSN 225

Intermediate level class offering instruction on the torso bodice, dartless block and drafting a basic pant then using the blocks to create dresses, shirt styles and pant variations. Advanced skirts styling is also included.

25662	LAB	8:35 am - 3:05 pm	Sa	Stafford, W	D4-205
13845	LAB	6:00 pm - 9:10 pm	MW	Melin, L A	D4-102

FASHDSN 227-Pattern Making And Design III - 2 Units

Enrollment Requirement: Prerequisite: FASHDSN 226

Advanced level class offering instruction on jackets, advanced sleeve styles, contouring fundamentals, and basic bodysuits and leotards.

25666	LAB	8:35 am - 3:05 pm	Sa	Stafford, W	D4-205
13861	LAB	6:00 pm - 9:10 pm	MW	Melin, L A	D4-102

FASHDSN 228-Pattern Grading And Design I - 2 Units

This course offers training in increasing and decreasing the pattern size for basic slopers in the several size ranges of women's wearing apparel. Also includes practice in selected methods and in the use of grading machines currently used in industry.

13875	LAB	6:00 pm - 9:10 pm	TTh	Glass Villalobos, N	D4-106
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FASHDSN 229-Pattern Grading And Design II - 2 Units

Selected whole garments are graded. Research and study is done on the laws of proportionate growth, size ranges, and difficult pattern shapes. Principles of design are correlated to grading problems. Marker making and cost sheets development is included in this course.

13881	LAB	6:00 pm - 9:10 pm	TTh	Glass Villalobos, N	D4-106
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FASHDSN 236-Fashion Sketching And Design I - 2 Units

Instruction includes fashion figure drawing, rendering fabrics and garments on figures, designing selected garments, study of color theory and techniques.

13883	LAB	6:00 pm - 9:10 pm	MW	Osuna, C L	D4-106
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FASHDSN 237-Fashion Sketching And Design II - 2 Units

Enrollment Requirement: Prerequisite: FASHDSN 236

Instruction includes women's day dresses, children's fashion figures and garment designs, watercolor or gouache techniques, illustrations, contemporary graphic layouts and the portfolio development. Techniques of quick sketching will be covered.

13887	LAB	6:00 pm - 9:10 pm	MW	Osuna, C L	D4-106
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Class No	Component	Start/End Time	Days	Instructor	Room
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FASHDSN 238-Fashion Sketching And Design III - 2 Units**Enrollment Requirement:** Prerequisite: FASHDSN 236 and FASHDSN 237

Development of professional portfolio presentation including development of design focus and, advanced research techniques. The process will include the development of illustration techniques and design refinement. Professional readiness including; writing a resume, cover letter and calling card and developing refined job interview skills.

13895	LAB	6:00 pm - 9:10 pm	MW	Osuna, C L	D4-106
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FASHDSN 239-Gown Draping And Design I - 2 Units

Instruction is offered on draping, fitting basic blocks, and transferring the drape to a paper pattern. Students will drape basic type bodices, sleeves, skirts, collars, and construction details. Theory includes basic principles of design, line, proportion, and fabric use.

13906	LAB	8:35 am - 3:05 pm	Sa	Kim, H	D4-105
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13900	LAB	6:00 pm - 9:10 pm	TTh	Cunnigan, D J	D4-105
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FASHDSN 240-Gown Draping And Design II - 2 Units

This course includes the draping of casual knit garments and dress and jacket style innovations. Students use either muslin or fashion fabric according to their capabilities. Fashion trends are studied and original designs are created.

13919	LAB	8:35 am - 3:05 pm	Sa	Kim, H	D4-105
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13911	LAB	6:00 pm - 9:10 pm	TTh	Cunnigan, D J	D4-102
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FASHDSN 241-Gown Draping And Design III - 2 Units

This course correlates the designer's knowledge of designing, sketching, patternmaking, draping, and construction. Students develop confidence as they study the problems of merchandising and manufacturing. Original designs for special occasion garments are executed in various fabrics.

13932	LAB	8:35 am - 3:05 pm	Sa	Kim, H	D4-105
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13924	LAB	6:00 pm - 9:10 pm	TTh	Cunnigan, D J	D4-102
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FASHDSN 244-Photoshop For Fashion Design (CSU) - 2 Units

This course offers computer fashion art instruction using Adobe Photoshop software. Emphasis is placed on preparation and input of fashion images for portfolios and design presentations as required by industry standards.

13938	LAB	6:00 pm - 9:10 pm	TTh	Walker, T	D4-303
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FASHDSN 255-Computerized Product Design - 2 Units

This course offers training and development of skills in apparel utilizing the latest versions of apparel pattern making software. Design students will concentrate on pattern development including, drafting, alterations, and manipulations.

13942	LAB	6:00 pm - 9:10 pm	TTh	STAFF, L	D4-133
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FASHDSN 256-Cad Apparel Pre-Production Techniques - 2 Units

This course offers basic training in the apparel pre-production process, including grading and marker making as it applies to computerized apparel production. The class will cover the specialized Lectra computer software programs. Students will learn to the functions of the software while grading and making markers. Basic computerized pattern making will also be covered.

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
28093	LAB	12:00 pm - 3:10 pm	TTh	Alcala, C	D4-132

FASHDSN 258-Computer-Aided Pattern Systems - 2 Units

This course is designed to expand knowledge of pattern making using Lectra Systems software programs. A variety of pattern will be created using the draft method and the use of basic blocks.

28094	LAB	12:00 pm - 3:10 pm	TTh	Alcala, C	D4-132
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FASHDSN 270-Illustrator For Fashion Design - 2 Units

This computer sketching course focuses on the fundamental options to illustrate garments, and fabrics for clothing and accessory presentations based on current global fashion industry technology standards.

13957	LAB	8:35 am - 3:05 pm	Sa	Lembke, L	D4-303
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FASHDSN 941-Cooperative Education - Fashion Design (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

13962	LEC	4:15 hrs/wk	TBA	Glass Villalobos, N	D4-232
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Fashion Merchandising

FASHMER 001-Entrepreneurial Fashion (CSU) - 3 Units

This course delivers the information needed to develop an effective business plan and provides a background in entrepreneurship for apparel related businesses. Students will examine the development of a fashion retail business from concept evaluation to strategy articulation. Procedures and resources for researching and opening a business are covered, as well as assortment planning, pricing and financing.

13969	LEC	6:00 pm - 8:30 pm	M	Dwyer, N	D4-300
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AND

13974	LAB	6:00 pm - 7:25 pm	W	Dwyer, N	D4-300
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FASHMER 010-Retail Merchandising (CSU) - 3 Units

This course introduces all phases of fashion retailing from the creative to the financial. It is designed to familiarize students to the crucial functions of merchandising and product management in a retail company. The course covers special aspects of retailing including: the evolution of the industry, merchandising roles and careers, market knowledge, consumer behavior, planning and control and retail pricing.

13978	LEC	10:30 am - 11:55 am	MW	Murphy, D R	D4-300
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FASHMER 020-Apparel Product Development (CSU) - 3 Units

This course covers the step-by-step development of apparel products in a retail or wholesale environment. Students will use research, merchandising knowledge and the application of merchandising concepts and theories in a simulated process. The course includes visual presentation of design concepts, raw materials sourcing, overviews of production technology, wholesale marketing and retail distribution. Special emphasis is placed on the California apparel industry.

13982	LEC	8:30 am - 11:00 am	F	Murphy, D R	D4-300
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Class No	Component	Start/End Time	Days	Instructor	Room
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13988	LAB	11:10 am - 12:35 pm	F	Murphy, D R	D4-300
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FASHMER 025-Fashion And Industry Interchange (CSU) - 3 Units

This course covers current trends and relationships in the Fashion Industry between apparel, accessories, cosmetics, and home goods. Each category of goods is reviewed from the perspectives of historical development, organization and operation, merchandising and marketing in order to gain broad insight to the unique aspects of these industry segments.

13995	LEC	8:30 am - 9:55 am	MW	Murphy, D R	D4-300
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FASHMER 030-Wholesale Merchandising (CSU) - 3 Units

This course prepares students for a merchandising position with an apparel manufacturing company. All phases, including line development, design, costing, sales, production, contracting and distribution are covered. Current trends and specialized knowledge in merchandising a successful line are emphasized.

14003	LEC	8:30 am - 9:55 am	TTh	Murphy, D R	D4-300
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FASHMER 041-Fashion Merchandise Buying (CSU) - 3 Units

This course provides specific instruction on fashion/merchandise buying tasks such as: identifying target customers, creating six month merchandise plans, departmental assortment plans, shopping the market and placing orders, in-season sales planning and forecasting, and calculating open-to-buy. This course covers the process of retail buying for a small business as well as for larger companies.

14005	LEC	10:10 am - 12:40 pm	T	Murphy, D R	D4-300
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AND

14010	LAB	10:10 am - 11:35 am	Th	Murphy, D R	D4-300
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FASHMER 941-Cooperative Education - Fashion Merchandising (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

14020	LEC	4:15 hrs/wk	TBA	Glass Villalobos, N	D4-232
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Finance

FINANCE 008-Personal Finance And Investments (CSU) - 3 Units

This course presents the theory and practice involved with applying personal financial decisions met in everyday living. Functions of several financial institutions that exist to serve the consumer and the financial advisor. Also included are a selection of services that are chosen from topics such as borrowing money, understanding credit scores, buying insurance, buying a new home, tax strategy, retirement planning, and buying stocks and bonds.

25709	LEC	8:35 am - 10:00 am	MW	Ahmad, J	C4-322
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14199	LEC	3:10 hrs/wk	TBA	Mcintosh, A U	ON LINE
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French

Class No	Component	Start/End Time	Days	Instructor	Room
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FRENCH 001-Elementary French I (UC/CSU) - 5 Units*Requirement Designation: Meets IGETC 6A CSU C2*

This course introduces the fundamentals of French pronunciation and grammar; the building of a basic practical vocabulary; and develops the ability to speak, understand, read, and write simple contemporary French. Basic computer skills are necessary to access and complete online homework.

10244	LEC	10:10 am - 12:45 pm	TTh	Tamer, N E	B1-223
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Geography**GEOG 001-Physical Geography (UC/CSU) - 3 Units***Requirement Designation: Meets IGETC 5A CSU B1*

This course analyzes spatial patterns of the Earth's physical features and processes. The connections between Earth's water, air, land, and life are investigated at global, regional, and local scales providing a general synthesis of the broad field of physical geography.

11151	LEC	6:00 pm - 9:10 pm	M	Landau, D M	B3-308
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GEOG 002-Cultural Elements Of Geography (UC/CSU) - 3 Units*Requirement Designation: Meets IGETC 4E CSU D5*

Explore the geographic character of human societies and the challenges and opportunities of living in an increasingly globalized world. Discover the origins, diffusion, and distributions of cultural traditions and popular culture, population and migration, languages, religions, ethnic identity, political structures and nationalism, agriculture and food, economic systems, urbanization, and landscape modification.

25258	LEC	11:45 am - 1:10 pm	MW	Armen, A M	B3-305
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11401	LEC	2:30 pm - 3:55 pm	TTh	Conti, M R	F5-313
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Geology**GEOLOGY 001-Physical Geology (UC/CSU) - 3 Units***Requirement Designation: Meets IGETC 5A CSU B1*

Physical Geology

11933	LEC	8:00 am - 11:10 am	Sa	Boroon, M H	B3-308
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11922	LEC	6:00 pm - 9:10 pm	T	Ortega, R	B3-305
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GEOLOGY 006-Physical Geology Laboratory (UC/CSU) - 2 Units*Requirement Designation: Meets IGETC 5C CSU B3***Enrollment Requirement:** Prerequisite or Corequisite: GEOLOGY 001

Physical Geology Laboratory

12283	LAB	11:30 am - 1:35 pm	Sa	Boroon, M H	C4-424
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Health**HEALTH 002-Health And Fitness (UC/CSU) - 3 Units***Requirement Designation: Meets CSU E*

Students will learn methods of physical, holistic, and psychological wellness, with an emphasis on disease prevention, nutrition, sexuality, reproduction, drugs, alcohol, tobacco, aging, stress management and weight control. Individual improvements using cardiovascular and resistance training, flexibility, and body composition management are emphasized in the physical fitness

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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segment of the course.

25511	LEC	1:20 pm - 3:25 pm	M	Ratcliff, J E	B1-216
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AND

25512	LAB	3:35 pm - 5:40 pm	M	Ratcliff, J E	C4-BASE
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25994	LEC	5:10 pm - 7:15 pm	T	Lagos, D R	B1-216
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AND

25995	LAB	7:25 pm - 9:30 pm	T	Lagos, D R	B1-216
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HEALTH 006-Nutrition For Healthful Living And Fitness Activities (UC/CSU) - 3 Units

Requirement Designation: Meets CSU E

Students will learn basic nutrition theories, information for healthful food purchasing, and the relationship of nutrition to disease. Class time includes participation in fitness activities including cardiovascular and resistance training, flexibility, and body composition management.

13228	LEC	1:20 pm - 3:25 pm	W	Ratcliff, J E	B1-215
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AND

13237	LAB	3:35 pm - 5:40 pm	W	Ratcliff, J E	F2-212
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HEALTH 008-Women's Personal Health (UC/CSU) - 3 Units

Requirement Designation: Meets CSU E

Students will learn Socio-cultural influences, 7-dimensions of wellness, holistic health options, and factors that contribute to the overall well-being of women's personal and reproductive health.

13841	LEC	1:20 pm - 2:45 pm	TTh	Stojic, S	B1-215
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HEALTH 011-Principles Of Healthful Living (UC/CSU) - 3 Units

Requirement Designation: Meets CSU E

Students will learn health concepts and values with the goal of promoting a high quality of life. Topics include nutrition, physical fitness, communicable diseases and other major health problems, consumer and environmental health, human sexuality and family life, mental and emotional health, tobacco, alcohol and drugs, aging, and death and dying.

28916	LEC	8:00 am - 11:50 am	Sa	STAFF, L	B1-216
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STEAM Academy

Enrollment and participation open for all students.

For more information, please visit the STEAM Office in The Student Support Center (The Hub; Formerly Mariposa Hall) in Room D3-109.

28254	LEC	6:00 pm - 9:10 pm	M	Ratcliff, J E	B1-216
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15843	LEC	8:35 am - 10:00 am	MW	Lagos, D R	B1-215
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15882	LEC	8:35 am - 10:00 am	TTh	Lagos, D R	B1-216
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15851	LEC	10:10 am - 11:35 am	TTh	Lagos, D R	B1-216
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15864	LEC	11:45 am - 1:10 pm	MW	Lagos, D R	B1-216
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20535	LEC	3:15 hrs/wk	TBA	Delzeit, L D	ON LINE
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Linda Delzeit @ DELZEILD@lattc.edu.

HEALTH 021-Human Sexuality (UC/CSU) - 3 Units

Requirement Designation: Meets CSU E

Students will learn the cultural, behavioral, biological and psychosocial aspects of human sexuality

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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for health and wellness.

28500	LEC	7:00 am - 8:25 am	TTh	Budinger, J E	B1-216
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HEALTH 046-Basic Life Support CPR/AED for the Healthcare Provider (CSU) - 1 Unit

This course covers the content of the American Heart Association Basic Life Support (BLS) CPR/AED for the Healthcare Provider. It covers care of the adult, child, and infant

28938	LEC	3:15 pm - 4:20 pm	WF	Barker, D	OFF CAMP
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Foshay Learning Center

3751 S Harvard Blvd, Los Angeles, CA 90018

Enrollment and participation open to all students and is located offsite. For more information, please visit the Partnership Office in The Student Support Center (The Hub; Formerly Mariposa Hall) in Room D3-109.

Health Occupations

HLTHOCC 062-Skill Set For The Health Care Professional (CSU) - 2 Units

This course is an introduction of the concepts and skills that serve as a foundation for the health care professions. Topics include hygiene and safety, infection control, basic client monitoring, basic first aid, therapeutic communication and basic health documentation.

28918	LEC	3:15 pm - 4:20 pm	W	Holland, L S	OFF CAMP
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James A. Foshay Learning Center

3751 S Harvard Blvd, Los Angeles, CA 90018

Enrollment and participation open to all students and is located offsite. For more information, please visit the Partnership Office in The Student Support Center (The Hub; Formerly Mariposa Hall) in Room D3-109.

AND

28919	LAB	3:15 pm - 5:40 pm	F	Holland, L S	OFF CAMP
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And	LAB	4:30 pm - 5:40 pm	W		OFF CAMP
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James A. Foshay Learning Center

3751 S Harvard Blvd, Los Angeles, CA 90018

Enrollment and participation open to all students and is located offsite. For more information, please visit the Partnership Office in The Student Support Center (The Hub; Formerly Mariposa Hall) in Room D3-109.

HLTHOCC 063-Basic Medical Terminology, Pathophysiology And Pharmacology (CSU) - 2 Units

This basic medical language course will discuss common diseases and injuries and their pharmacological treatment using medical terminology in English and Spanish, when appropriate.

28922	LEC	4:00 pm - 5:35 pm	MW	Zarpas, E	OFF CAMP
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And	LEC	0:10 hrs/wk	TBA	Zarpas, E	ON LINE
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New Designs Charter School

2303 Figueroa Way, Los Angeles, CA 90007

Enrollment and participation open to all students and is located offsite.

For more information, please visit the Partnership Office in The Student Support Center (The Hub; Formerly Mariposa Hall) in Room D3-109.

History

HISTORY 002-Introduction To Western Civilization II - 3 Units

Introduction To Western Civilization II

28203	LEC	3:10 hrs/wk	TBA	Bird, B L	ON LINE
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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HISTORY 011-Political And Social History Of The United States I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

Political And Social History Of The United States I

17373	LEC	8:35 am - 10:00 am	MW	Martinez, M E	F5-313
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Bethany Bird@BirdBL@lattc.edu

17374	LEC	8:35 am - 10:00 am	MW	Flowers, E R	F5-301
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17383	LEC	8:35 am - 10:00 am	TTh	Rodriquez Estrada, A I	F5-301
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17375	LEC	10:10 am - 11:35 am	MW	Mazon, R	F5-313
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17379	LEC	11:45 am - 1:10 pm	MW	STAFF, L	F5-301
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17385	LEC	11:45 am - 1:10 pm	TTh	STAFF, L	F5-313
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Bethany Bird@BirdBL@lattc.edu

17395	LEC	6:00 pm - 9:10 pm	T	Gutierrez, E O	F5-313
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17402	LEC	6:00 pm - 9:10 pm	W	Friedman, B D	F5-301
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17389	LEC	3:10 hrs/wk	TBA	Bird, B L	ON LINE
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Bethany Bird@BirdBL@lattc.edu

17410	LEC	3:10 hrs/wk	TBA	Rodriquez Estrada, A I	ON LINE
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HISTORY 012-Political And Social History Of The United States II (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

Political And Social History Of The United States II

17713	LEC	8:35 am - 10:00 am	TTh	STAFF, L	F5-313
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17717	LEC	9:00 am - 12:10 pm	Sa	Gomez, G	F5-313
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17714	LEC	11:45 am - 1:10 pm	TTh	Keily, J F	F5-312
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27769	LEC	1:35 pm - 3:00 pm	TTh	Keily, J F	F5-301
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ATM Pathway/Guided Choices

28214	LEC	2:00 pm - 3:25 pm	TTh	STAFF, L	F5-312
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DMA HISTORY STUDENTS!

17721	LEC	6:00 pm - 9:10 pm	Th	Grutzmacher, W	F5-313
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17724	LEC	3:10 hrs/wk	TBA	Bird, B L	ON LINE
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HISTORY 041-The African American In The History Of The U.S. I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

The African American In The History Of The U.S. I

17762	LEC	10:10 am - 11:35 am	TTh	Green, C D	F5-312
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HISTORY 043-The Mexican-American In The History Of The United States I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

The Mexican-American In The History Of The United States I

17774	LEC	10:10 am - 11:35 am	TTh	Rodriquez Estrada, A I	F5-301
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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HISTORY 086-Introduction To World Civilization I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

Introduction To World Civilization I

17799	LEC	10:10 am - 11:35 am	MW	STAFF, L	F5-301
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HISTORY 087-Introduction To World Civilization II (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

Introduction To World Civilization II

28201	LEC	3:10 hrs/wk	TBA	Bird, B L	ON LINE
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Humanities

HUMAN 001-Cultural Patterns Of Western Civilization (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

This course introduces the general concepts of the Humanities in the framework of the predominant cultural patterns of the Western tradition from the earliest civilizations, such as the Sumerians and the Egyptians, the classical heritage of Greece and Rome, the Medieval period, or Middle Ages, and possibly continuing through the Renaissance and the Reformation. Mythology, music, history, philosophy, painting, drama, sculpture and architecture are studied and compared in relation to their background, medium, organization and style. Emphasis is placed upon the awareness of cultural heritage, values and perspectives as revealed in the arts. Comparisons to relevant Asian, African and American cultures and art may also explored. Specifics may vary based on instructor.

10326	LEC	8:35 am - 10:00 am	TTh	Armstrong, A E	F5-208
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10359	LEC	9:00 am - 10:25 am	F	Tropf, R K	F5-208
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And	LEC	1:25 hrs/wk	TBA	Tropf, R K	ON LINE
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10293	LEC	10:10 am - 11:35 am	MW	Abdul-Mu'min, J	F5-215
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10463	LEC	3:10 hrs/wk	TBA	Tropf, R K	ON LINE
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HUMAN 002-Studies In Selected Cultures (UC/CSU) (RPT 1) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

Studies In Selected Cultures

10518	LEC	10:10 am - 11:35 am	TTh	Armstrong, A E	F5-208
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Kinesiology

KIN 300-1-Swimming Non-Swimmer I (UC/CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn introductory aquatic skills, water safety, basic aquatic activities and develop confidence in water. This course is designed for students to learn how to swim. All levels welcomed.

21062	LAB	8:35 am - 10:00 am	MW	Mayfield, M D	P OOL
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21046	LAB	10:10 am - 11:35 am	MW	Mayfield, M D	P OOL
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21047	LAB	10:10 am - 11:35 am	TTh	Ratcliff, J E	P OOL
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KIN 300-2-Swimming Non-Swimmer II (UC/CSU) - 1 Unit

Requirement Designation: Meets CSU E

Class No	Component	Start/End Time	Days	Instructor	Room
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Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn beginning aquatic skills, water safety, basic aquatic activities and further develop confidence in water. This course is designed for students to continue learning how to swim, building on KIN 300-1.

21064	LAB	8:35 am - 10:00 am	MW	Mayfield, M D	P OOL
21048	LAB	10:10 am - 11:35 am	MW	Mayfield, M D	P OOL
21049	LAB	10:10 am - 11:35 am	TTh	Ratcliff, J E	P OOL

KIN 300-3-Swimming Non-Swimmer III (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn intermediate aquatic skills, water safety, basic aquatic activities and further develop confidence in water. This course is designed for students to continue learning how to swim, building on KIN 300-1 and KIN 300-2.

21066	LAB	8:35 am - 10:00 am	MW	Mayfield, M D	P OOL
21050	LAB	10:10 am - 11:35 am	MW	Mayfield, M D	P OOL
21051	LAB	10:10 am - 11:35 am	TTh	Ratcliff, J E	P OOL

KIN 303-1-Aqua Aerobics I (UC/CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn introductory exercises through aerobic activities performed in water. Cardiovascular endurance training and resistance training may be included.

21052	LAB	11:45 am - 1:10 pm	MW	Delzeit, L D	P OOL
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Linda Delzeit @ DELZEILD@lattc.edu.

KIN 303-2-Aqua Aerobics II (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn beginning exercises through aerobic activities performed in water. Cardiovascular endurance training and resistance training may be included. This course builds upon KIN 303-1.

21053	LAB	11:45 am - 1:10 pm	MW	Delzeit, L D	P OOL
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Linda Delzeit @ DELZEILD@lattc.edu.

KIN 303-3-Aqua Aerobics III (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn intermediate exercises through aerobic activities performed in water. Cardiovascular endurance training and resistance training may be included. This course builds upon KIN 303-1 and KIN 303-2.

21054	LAB	11:45 am - 1:10 pm	MW	Delzeit, L D	P OOL
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For more info. regarding Open Educational Resource (OER) materials for this class, please contact the instructor, Linda Delzeit @ DELZEILD@lattc.edu.

Class No	Component	Start/End Time	Days	Instructor	Room
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KIN 329-1-Body Conditioning I (CSU) - 1 Unit**Enrollment Requirement:** Maximum of 4 enrollments in Kinesiology family

This introductory course provides students with the opportunity to learn and participate in a variety of exercises for increasing cardiovascular fitness, muscular strength, and flexibility.

12338	LAB	7:00 am - 8:25 am	MW	Budinger, J E	C4-BASE
12364	LAB	8:35 am - 10:00 am	MW	Budinger, J E	C4-BASE
12643	LAB	8:35 am - 10:00 am	TTh	Budinger, J E	C4-BASE
13051	LAB	9:00 am - 12:10 pm	F	STAFF, L	C4-BASE
12390	LAB	10:10 am - 11:35 am	MW	Budinger, J E	C4-BASE
12726	LAB	10:10 am - 11:35 am	TTh	Budinger, J E	C4-BASE
12431	LAB	11:45 am - 1:10 pm	MW	Budinger, J E	C4-BASE
12810	LAB	11:45 am - 1:10 pm	TTh	Budinger, J E	C4-BASE
12471	LAB	1:20 pm - 2:45 pm	MW	Lagos, D R	C4-BASE
12898	LAB	1:20 pm - 2:45 pm	TTh	STAFF, L	C4-BASE
12527	LAB	6:00 pm - 7:25 pm	MW	Skarr, G T	C4-BASE
12960	LAB	6:00 pm - 7:25 pm	TTh	STAFF, L	C4-BASE

KIN 329-2-Body Conditioning II (UC/CSU) - 1 Unit*Requirement Designation: Meets CSU E***Enrollment Requirement:** Maximum of 4 enrollments in Kinesiology family

Students learn and participate in a variety of beginning level exercises for increasing cardiovascular fitness, muscular strength, and flexibility. This course builds on KIN 329-1.

13641	LAB	7:00 am - 8:25 am	MW	Budinger, J E	C4-BASE
13659	LAB	8:35 am - 10:00 am	MW	Budinger, J E	C4-BASE
13868	LAB	8:35 am - 10:00 am	TTh	Budinger, J E	C4-BASE
14197	LAB	9:00 am - 12:10 pm	F	STAFF, L	C4-BASE
13680	LAB	10:10 am - 11:35 am	MW	Budinger, J E	C4-BASE
13927	LAB	10:10 am - 11:35 am	TTh	Budinger, J E	C4-BASE
13703	LAB	11:45 am - 1:10 pm	MW	Budinger, J E	C4-BASE
13991	LAB	11:45 am - 1:10 pm	TTh	Budinger, J E	C4-BASE
13738	LAB	1:20 pm - 2:45 pm	MW	Lagos, D R	C4-BASE
21068	LAB	1:20 pm - 2:45 pm	TTh	STAFF, L	C4-BASE
13771	LAB	6:00 pm - 7:25 pm	MW	Skarr, G T	C4-BASE
14121	LAB	6:00 pm - 7:25 pm	TTh	STAFF, L	C4-BASE

KIN 329-3-Body Conditioning III (UC/CSU) - 1 Unit*Requirement Designation: Meets CSU E***Enrollment Requirement:** Maximum of 4 enrollments in Kinesiology family

Students learn and participate in a variety of intermediate level exercises for increasing cardiovascular fitness, muscular strength, and flexibility. This course builds on KIN 329-2.

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
23525	LAB	7:00 am - 8:25 am	MW	Budinger, J E	C4-BASE
23526	LAB	8:35 am - 10:00 am	MW	Budinger, J E	C4-BASE
23530	LAB	8:35 am - 10:00 am	TTh	Budinger, J E	C4-BASE
23531	LAB	10:10 am - 11:35 am	TTh	Budinger, J E	C4-BASE
23527	LAB	11:45 am - 1:10 pm	MW	Budinger, J E	C4-BASE
23532	LAB	11:45 am - 1:10 pm	TTh	Budinger, J E	C4-BASE
23528	LAB	1:20 pm - 2:45 pm	MW	Lagos, D R	C4-BASE
23533	LAB	1:20 pm - 2:45 pm	TTh	STAFF, L	C4-BASE
23529	LAB	6:00 pm - 7:25 pm	MW	Skarr, G T	C4-BASE
23534	LAB	6:00 pm - 7:25 pm	TTh	STAFF, L	C4-BASE

KIN 330-1-Cardio Kickboxing I (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Students learn introductory level, non-contact, cardio-kickboxing techniques to improve overall fitness including: cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition.

19451	LAB	10:10 am - 11:35 am	TTh	Stojic, S	G2-100
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KIN 330-2-Cardio Kickboxing II (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Students learn beginning level, non-contact, cardio-kickboxing techniques to improve overall fitness including: cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition. This course builds on KIN 330-1.

28043	LAB	10:10 am - 11:35 am	TTh	Stojic, S	G2-100
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KIN 350-1-Weight Training I (CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

This introductory level strength training class includes progressive resistance exercises. There is an emphasis on the knowledge, understanding, and values of building muscle strength and endurance.

15315	LAB	9:00 am - 12:10 pm	Sa	Pfiffner, B C	C4-BASE
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KIN 351-1-Yoga I (UC/CSU) - 1 Unit

Requirement Designation: Meets CSU E

Enrollment Requirement: Maximum of 4 enrollments in Kinesiology family

Introductory yoga postures, breathing techniques, stretches, mental and relaxation exercises are used to gain concentration and self-discipline, and to improve physical, mental and emotional health.

19452	LAB	1:20 pm - 2:45 pm	TTh	De Castro, J	F2-212
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19453	LAB	1:20 pm - 2:45 pm	MW	De Castro, J	F2-212
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KIN 351-2-Yoga II (CSU) - 1 Unit

Beginning yoga postures, breathing techniques, stretches, mental and relaxation exercises are used to gain concentration and self-discipline, and to improve physical, mental and emotional health. This

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
course builds upon KIN 351-1.					
28445	LAB	1:20 pm - 2:45 pm	MW	De Castro, J	F2-212
28444	LAB	1:20 pm - 2:45 pm	TTh	De Castro, J	F2-212

Kinesiology Major

KIN MAJ 100-Introduction To Kinesiology (CSU) - 3 Units

Students learn about the study of human movement through an interdisciplinary approach that includes discussing the importance of the sub-disciplines in kinesiology and the variety of career opportunities in the areas of teaching, allied health, and fitness professions.

13239	LEC	8:35 am - 10:00 am	TTh	Ratcliff, J E	B1-215
25611	LEC	6:00 pm - 9:10 pm	W	Ratcliff, J E	B1-216

KIN MAJ 106-Sports Ethics (CSU) - 3 Units

Requirement Designation: Meets CSU C2

Students will learn the wide range of moral and ethical issues in sports. Topics include racial and gender equity, commercialization, use of ergogenic aids, eligibility, violence, sportsmanship, and code of ethics, using an examination of historical and current events.

20268	LEC	3:10 hrs/wk	TBA	Ratcliff, J E	ON LINE
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Labor Studies

LABR ST 001-Us Labor History (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4F CSU D6

This course covers the often untold story of workers' struggle to improve their lives through union organizing and collective bargaining, ranging from early craft unions, the bloody battles to form industrial unions, and the rise of labor federations and public sector unions.

21532	LEC	3:10 hrs/wk	TBA	Wills, E R	ON LINE
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LABR ST 004-Labor In America (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4G CSU D7

Examines how labor organizations and labor laws impact workers, families and American society focusing on worksite-related issues such as job security, income, workers' rights, immigration and role of unions.

15589	LEC	10:10 am - 11:35 am	TTh	Siegel, L	TBA 1
15594	LEC	3:10 hrs/wk	TBA	STAFF, L	ON LINE

LABR ST 005-Grievance And Arbitration Procedures (CSU) - 3 Units

Students learn to identify, investigate, write and present grievances and arbitrations with emphasis on participant's own contract, grievance procedure and experiences.

25536	LEC	6:00 pm - 9:10 pm	M	Akel, T M	LA CFL
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This is an off campus class to be held at the L.A. County Federation of Labor, 2130 James Wood Blvd., Los Angeles, CA 90006; contact Labor Center at 213-763-7129

LABR ST 008-Labor In The Global Economy - 3 Units

Labor In The Global Economy

25537	LEC	3:10 hrs/wk	TBA	Wills, E R	ON LINE
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LABR ST 020-Workers' Rights (CSU) - 3 Units

Class No	Component	Start/End Time	Days	Instructor	Room
Basic legal rights for workers, including: wage and hour laws, overtime, leaves, workplace privacy including e-mail and computers, accommodating disabilities, including pregnancy, and combating sexual harassment and employment discrimination.					
15617	LEC	3:10 hrs/wk	TBA	Young, J F	ON LINE

LABR ST 021-The Working Class And Cinema (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

This course will examine and analyze how feature film portrayals of the working class and labor unions may shape public perception.

21087	LEC	6:00 pm - 9:10 pm	Th	Chen, M M	B3-305
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Law

LAW 018-Marriage And Family Law (CSU) - 3 Units

This course analyzes fundamental concepts of family law with emphasis on California's community property laws. Lectures and activities will address child custody, spousal and child support, required financial disclosures, domestic abuse, and settlement agreements. Students will prepare mandatory forms in a dissolution proceeding and parenting plan proposals.

25719	LEC	1:45 pm - 4:55 pm	M	Gary, K	LC4-302
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Machine Shop - Cnc

MSCNC 111-Principles Of Machine Tools I (CSU) - 2 Units

MSCNC 111 (Principles of Machine Tools I) is a course that will engage students with Machine Shop specific topics including; safety practices, hand tools, precision measuring tools, set-up and operation of band saws, drill presses, lathes, mills, pedestal grinders, power saws as well as computer numerical control (CNC) machine tools. Theoretical and manipulative exercises will challenge students' understanding of practical subject matter.

19144	LEC	7:00 am - 8:25 am	Th	Chit, T	B1-166
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AND

19145	LAB	7:00 am - 8:25 am	T	Chit, T	B1-166
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MSCNC 112A-Technology And Application Of Machining Ia - 3 Units

MSCNC 112A (Technology and Application of Machining IA) is a lab course that will engage students with machine shop specific topics including; shop safety, speeds, feeds, set-up, operation and technology of basic machine tools. Band saws, drill presses, lathes, mills, pedestal grinders, power saws as well as computer numerical control (CNC) machine tools will be introduced and used by the students. Along with the machine tools, students will be expected to identify, manipulate and properly use and read basic hand tools and precision measuring instruments.

19150	LAB	7:00 am - 10:10 am	MWF	Chit, T	B1-152
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MSCNC 112B-Technology And Application Of Machining (Cad) Ib - 1 Unit

MSCNC 112B (Technology and Application of Machining (CAD) IB) is a course that will engage students with Machine Shop specific topics related to computer aided design (CAD). Topics will include solid model creation, blueprint creation, dimensioning, product development and assembling individual parts into completed assemblies.

19151	LAB	10:10 am - 11:35 am	TTh	Chit, T	B1-164C
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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MSCNC 114-Print Interpretation & Sketching (Blueprint I) (CSU) - 3 Units

Print Interpretation & Sketching (Blueprint I)

19146	LEC	8:35 am - 10:00 am	TTh	Chit, T	B1-166
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MSCNC 115-Basic Applied Mathematical Calculations (CSU) - 3 Units

MSCNC 115 (Basic Applied Mathematical Calculations) is a course that will engage students with machine shop specific topics related to calculations and calculator manipulation. Number theory, inch & metric calculations, algebra, ratios & proportions and fractions will all be covered in this course.

19147	LEC	10:20 am - 11:45 am	MW	Chit, T	B1-166
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MSCNC 131A-Principles Of Machine Tools IIIA - 2 Units

MSCNC 131A (Principles of Machine Tools IIIA) is a course that will engage students with Machine Shop specific topics including; shop safety, engine lathe, milling machine, vertical milling machine, grinders as well as materials, inspection techniques and machining topics. Theoretical and manipulative exercises will challenge students' understanding of practical subject matter.

19152	LEC	7:00 am - 8:25 am	Th	Shibuya, S T	B1-164C
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AND

21680	LAB	7:00 am - 8:25 am	T	Shibuya, S T	B1-164
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MSCNC 131B-Principles Of Machine Tools (Cnc) IIIB - 3 Units

MSCNC 131B (Principles of Machine Tools (CNC) IIIB) is a course that will engage students with Machine Shop specific topics related to machine tool programming. Both numerical control (NC) and computer numerical control (CNC) machine tools must have 'part programs' written for them to perform their intended function and create parts that are correct in fit, form and function.

19153	LEC	10:10 am - 11:35 am	TTh	Shibuya, S T	B1-164C
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MSCNC 132A-Technology And Application Of Machining IIIa - 3 Units

MSCNC 132A (Technology and Application of Machining IIIA) is a course that will engage students with Machine Shop specific topics related to the set-up, operation, and/or programming of grinding machines, milling machines, engine lathes, CNC machining centers, CNC turning centers and EDM machines. Assigned projects will allow students to continue to build their skills on previously encountered machine tools as well as being introduced to new technologies, including unconventional machining techniques.

19154	LAB	7:00 am - 10:10 am	MWF	Shibuya, S T	B1-164
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MSCNC 132B-Technology And Application Of Machining (Cam) IIIb - 1 Unit

MSCNC 132B (Technology and Application of Machining (CAM) IIIB) is a course that will engage students with Machine Shop specific topics regarding computer aided manufacturing (CAM) computer programs. Students will create geometry, cutting tools, process information in order for the CAM program to create cutter paths that will create the correct fit, form and function on the part.

19155	LAB	8:35 am - 10:00 am	TTh	Shibuya, S T	B1-164C
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MSCNC 135-Advanced Applied Mathematical Calculations (CSU) - 3 Units

MSCNC 135 (Advanced Applied Mathematical Calculations) is a course that will engage students with Machine Shop specific topics as they relate to trigonometric and compound angular calculations.

Class No	Component	Start/End Time	Days	Instructor	Room
19149	LEC	10:20 am - 11:45 am	MW	Shibuya, S T	B1-164C

Management

MGMT 002-Organization And Management Theory (CSU) - 3 Units

Students will be introduced to the management and organization of businesses. Students will connect how the management of people and resources accomplishes organizational goals. Students will demonstrate their understanding of leading, planning and controlling, organization design, operations management, and decision making. Students will also provide examples of human resource management, managing change, individual and group behavior, motivating and rewarding employees, communicating and interpersonal skills, work teams, ethics, leadership and trust in various business case studies.

19042	LEC	10:00 am - 1:10 pm	F	Dam, M C	C4-324
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MGMT 013-Small Business Entrepreneurship (CSU) - 3 Units

This course provides a systematic approach to developing and operating a successful small business. The areas of study include: personal qualifications for starting and managing a small business, determining the market opportunity, legal procedures, planning and marketing the business, location factors, capital requirements, protective factors to provide for risk, and personnel management. Students gain experience through the development of a business plan.

21555	LEC	9:00 am - 12:10 pm	Sa	Franklin, V	C4-210
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Mathematics

MATH 125-Intermediate Algebra - 5 Units

Enrollment Requirement: Prerequisite: MATH 114 or MATH 115 or Placement in M7 or M10
Math 125 strengthens and further develops manipulative skills in elementary algebra. Topics include the fundamental operations on algebraic expressions, solutions of equations and inequalities, exponentiation, graphs of algebraic, exponential and logarithmic functions, systems of equations and inequalities, and an introduction to the conic sections. Applications are included in a wide variety of word problems.

27852	LEC	7:00 am - 8:10 am	MTWTh	STAFF, L	F5-412
27863	LEC	7:00 am - 8:10 am	MTWTh	Bakman, A A	F5-410
22545	LEC	11:45 am - 12:55 pm	MTWTh	Webster, K	F5-212
28812	LEC	3:10 pm - 5:40 pm	MW	Chen, C K	F5-410
28813	LEC	3:10 pm - 5:40 pm	TTh	STAFF, L	F5-410
27845	LEC	6:00 pm - 8:30 pm	TTh	Dagher, G N	F5-306

MATH 125S-Intermediate Algebra With Support - 5 Units

Enrollment Requirement: Advisory: MATH 115

This course includes a mandatory lab component to review topics from prealgebra and elementary algebra. This course strengthens and further develops manipulative skills in elementary algebra. Topics include the fundamental operations on algebraic expressions, solutions of equations and inequalities, exponentiation, graphs of algebraic, exponential and logarithmic functions, systems of equations and inequalities, and an introduction to the conic sections. Applications are included in a wide variety of word problems.

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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
28021	LEC	8:35 am - 9:50 am	MWF	Liu, H	F5-306
AND					
28022	LAB	10:20 am - 12:25 pm	F	Liu, H	F5-306
28028	LEC	10:10 am - 11:35 am	MWTh	STAFF, L	F5-412
AND					
28029	LAB	11:45 am - 1:45 pm	T	STAFF, L	F5-412
27214	LEC	11:45 am - 1:00 pm	MWF	STAFF, L	F5-412
AND					
27944	LAB	1:20 pm - 3:25 pm	F	STAFF, L	F5-412
27879	LEC	3:00 pm - 4:15 pm	TThF	Loop, C B	E5-308
AND					
27880	LAB	4:40 pm - 6:45 pm	F	Loop, C B	E5-308
28023	LEC	6:00 pm - 7:15 pm	MTW	Barrow, O L	F5-410
AND					
28024	LAB	7:40 pm - 9:45 pm	W	Barrow, O L	F5-410
28025	LEC	6:00 pm - 7:15 pm	TWTh	Bayssa, B T	F5-415
AND					
28026	LAB	7:40 pm - 9:45 pm	W	Bayssa, B T	F5-415

MATH 137-Pre-Statistics Algebra - 5 Units

Enrollment Requirement: Advisory: MATH 110 or 112

Math 137 is a prerequisite solely for Math 227. It is an introduction to the concepts of algebra and basic elements of exploratory data analysis. Topics include arithmetic operations with signed numbers, properties of real numbers, algebraic expressions, solving linear equations and inequalities, graphing linear equations and inequalities in two variables, solving systems of linear equations and inequalities, exponents, polynomials, factoring, rational expressions, roots, radicals, methods of solving quadratic equations, solving a variety of word problems, data analysis, sample statistics and graphs, measures of central tendency and spread, probability, and exponential and logarithmic functions. Students will not get math competency credit for taking this course towards an AA/AS degree. If students wish to proceed to another course other than Math 227, they would need to go back and take Math 125.

27216	LEC	8:25 am - 9:45 am	MTWTh	Bakman, A A	F5-410
27883	LEC	8:35 am - 9:45 am	MTWTh	STAFF, L	F5-406
25777	LEC	10:10 am - 11:20 am	MTWTh	Webster, K	F5-406
27217	LEC	1:20 pm - 4:00 pm	TTh	Ovanessian, A	F5-413
27865	LEC	3:00 pm - 5:30 pm	MW	STAFF, L	E5-308
27864	LEC	6:00 pm - 8:30 pm	MW	STAFF, L	F5-306

MATH 215-Principles Of Mathematics I (UC/CSU) - 3 Units

Requirement Designation: Meets CSU B4

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2 or M5 or M6 or M9

Math 215 is intended for those who plan to teach mathematics in elementary schools. The course covers the language of sets, elementary logic, systems of numeration, numbers, fundamental

Class No	Component	Start/End Time	Days	Instructor	Room
operations, functions, integers, rational numbers, real numbers, and algorithms used in calculations.					
27256	LEC	10:10 am - 11:35 am	TTh	STAFF, L	TBA 1

MATH 227-Statistics (UC/CSU) - 4 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 125 or Placement in M1, M2, M5, M6, M9

Math 227 is an introduction to probability, measures of central tendency and dispersion, descriptive and inferential statistics, sampling, estimation, and hypothesis testing. Analysis of variance, chi-square and student t-distributions, linear correlation, and regression analysis are also presented as topics.

18736	LEC	7:00 am - 9:05 am	TTh	Cuellar, M	F5-413
18733	LEC	1:20 pm - 3:25 pm	MW	Avila, L	FF5-415
27260	LEC	1:20 pm - 3:25 pm	TTh	STAFF, L	F5-415
28824	LEC	3:20 pm - 5:25 pm	MW	STAFF, L	F5-306
28826	LEC	3:20 pm - 5:25 pm	TTh	STAFF, L	F5-306
27261	LEC	3:30 pm - 5:35 pm	TTh	STAFF, L	F5-310
27266	LEC	5:30 pm - 7:35 pm	TTh	STAFF, L	F5-406
18735	LEC	6:00 pm - 8:05 pm	TTh	Fong, P	F5-413
25788	LEC	6:00 pm - 8:05 pm	MW	STAFF, L	F5-310
27341	LEC	6:00 pm - 8:05 pm	MW	STAFF, L	F5-406

MATH 227S-Statistics with Support (CSU) - 4 Units**Enrollment Requirement:** Prerequisite: MATH 125 or MATH 125S

This course is an introduction to probability, measures of central tendency and dispersion, descriptive and inferential statistics including sampling, estimation, and hypothesis testing. Analysis of variance, chi-square and student t-distributions, linear correlation, and regression analysis are also presented as topics.

25790	LEC	8:35 am - 10:00 am	MWF	Liu, H	F5-412
AND					
25804	LAB	10:10 am - 11:10 am	F	Liu, H	F5-412
27886	LEC	10:10 am - 11:35 am	MTTh	Kunarak, S	F5-413
AND					
27887	LAB	11:45 am - 12:35 pm	M	Kunarak, S	F5-413
28031	LEC	11:45 am - 1:00 pm	TWTh	STAFF, L	F5-413
AND					
28032	LAB	1:10 pm - 2:00 pm	W	STAFF, L	F5-413
27881	LEC	11:45 am - 1:00 pm	TWTh	Maheta-Wells, P	F5-310
AND					
27882	LAB	1:10 pm - 2:10 pm	Th	Maheta-Wells, P	F5-310
25796	LEC	1:10 pm - 2:35 pm	MWF	STAFF, L	F5-306
AND					
25800	LAB	2:45 pm - 3:45 pm	F	STAFF, L	F5-306
25799	LEC	1:20 pm - 2:45 pm	MTTh	STAFF, L	F5-213

2019 Fall SCHEDULE

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Class No	Component	Start/End Time	Days	Instructor	Room
25789	LEC	2:00 pm - 3:15 pm	MTW	Maheta-Wells, P	F5-310
AND					
25809	LAB	3:25 pm - 4:25 pm	W	Maheta-Wells, P	F5-310
27888	LEC	3:00 pm - 4:15 pm	MWTh	STAFF, L	F5-406
AND					
27889	LAB	4:30 pm - 5:30 pm	W	STAFF, L	F5-406
25792	LEC	3:30 pm - 4:45 pm	TWTh	STAFF, L	F5-213
AND					
25794	LAB	5:00 pm - 6:00 pm	Th	STAFF, L	F5-213

MATH 230-Mathematics For Liberal Arts Students (UC/CSU) - 3 Units

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2 or M5 or M6 or M9

Advisory: MATH 137

Math 230 is an introduction to the spirit and style of mathematics and its pursuit as a human endeavor. Topics are chosen from a variety of mathematical fields including logic, set theory, systems of numeration, number theory, algebra, the metric system, geometry, mathematical systems, consumer mathematics, probability, statistics, graph theory, voting and apportionment which are intended to illustrate the nature of mathematical discovery, the utility of mathematical applications, and the beauty of geometrical design.

25811 LEC 10:10 am - 11:35 am MW STAFF, L F5-212

25812 LEC 1:10 pm - 2:35 pm TTh STAFF, L F5-306

MATH 235-Finite Mathematics (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 2A CSU B4

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2.

Math 235 covers topics in finite mathematics with applications to business and social sciences. Systems of linear equations, inequalities, linear programming, mathematics of finance, matrix algebra, probability, statistics, and game theory are among the topics presented.

27269 LEC 10:10 am - 11:20 am MTWTh Avila, L FF5-415

22486 LEC 11:45 am - 12:55 pm MTWTh STAFF, L F5-415

MATH 236-Calculus For Business And Social Science (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 2A CSU B4

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2

Math 236 consists of elementary differential and integral calculus of algebraic, exponential, and logarithmic functions, as well as partial derivatives and the method of Lagrange multipliers. Applications to business and the social sciences are emphasized.

25813 LEC 10:10 am - 11:45 am MTW STAFF, L E5-308

25814 LEC 1:20 pm - 2:55 pm MTTh Avila, L FF5-410

MATH 236L-Support Component for Calculus for Business and Social Science - 0.5 Unit

Enrollment Requirement: Corequisite: MATH 236

Support Component for Calculus for Business and Social Science

Class No	Component	Start/End Time	Days	Instructor	Room
25815	LAB	1:00 pm - 3:05 pm	W	STAFF, L	F5-410

MATH 241-Trigonometry With Vectors (CSU) - 4 Units

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2

Introduces trigonometric functions, their graphs, inverses, and fundamental identities. Trigonometric equations are solved. The laws of sines and cosines, vectors, polar coordinates and applications are introduced.

27272	LEC	7:00 am - 9:10 am	MW	STAFF, L	F5-413
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MATH 241S-Trigonometry with Vectors with Support (CSU) - 4 Units

Enrollment Requirement: Prerequisite: MATH 125

This course includes the study of the trigonometric functions and their inverses; measurement of angles in degrees and in radians; evaluating triangles; solutions of trigonometric equations; verification of trigonometric identities; vectors; complex numbers; graphing trigonometric functions and polar curves.

27868	LEC	10:10 am - 11:35 am	MTTh	Maheta-Wells, P	F5-310
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AND

28015	LAB	11:45 am - 12:45 pm	M	Maheta-Wells, P	F5-310
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MATH 245-College Algebra (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 2A CSU B4

Enrollment Requirement: Prerequisite: MATH 125 or Placement in M1 or M2.

This college algebra course includes the theory of equations, polynomial and rational functions and their graphs, systems of equations, matrices, determinants, permutations, combinations, sequences and series, the Binomial Theorem, and other topics.

18847	LEC	8:35 am - 10:00 am	TTh	STAFF, L	F5-412
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18846	LEC	1:20 pm - 2:45 pm	MW	Zinberg, V	F5-412
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MATH 245L-Just in Time Support for College Algebra (CSU) - 1 Unit

Enrollment Requirement: Corequisite: MATH 245

Topics in this course include concepts from Elementary and Intermediate Algebra such as linear equations in one and two variables with applications, literal equations, functions and graphs, systems of equations, inequalities, factoring, polynomial operations, rational expressions, radicals, quadratics, and complex numbers. Depending on your campus, this course may be taken concurrently with College Algebra, Calculus for Business and Social science, or Precalculus.

28018	LAB	10:10 am - 12:15 pm	F	STAFF, L	F5-413
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MATH 260-Precalculus (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 2A CSU B4

Enrollment Requirement: Prerequisite: MATH 240 or Placement in M1 or M2

This course combines college algebra, trigonometry, and introduction to analytic-geometry. Topics in algebra include polynomial, rational, exponential and logarithmic functions; mathematical induction, systems of equations, matrices, partial fractions, and sequences. Topics in trigonometry include basic trigonometric functions; inverse trigonometry; and trigonometric equations and identities.

27274	LEC	10:10 am - 11:20 am	MTWTh	Bakman, A A	F5-410
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18876	LEC	12:10 pm - 1:55 pm	MWF	Arakelyan, N	E5-308
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Class No	Component	Start/End Time	Days	Instructor	Room
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MATH 265-Calculus With Analytic Geometry I (UC/CSU) - 5 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 260

Math 265 is the first course in a three-semester, unified treatment of differential and integral calculus of a single variable including functions; limits and continuity; techniques and applications of differentiation and integration; rates of change; maxima and minima; Mean Value Theorem; approximations; antiderivatives; definite integrals; Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering & Math Majors.

23340	LEC	7:00 am - 8:10 am	MTWTh	Kunarak, S	F5-406
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18936	LEC	8:00 am - 9:40 am	MWF	Webster, K	E5-308
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MATH 266-Calculus with Analytic Geometry II (UC/CSU) - 5 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 265

Math 266 is the second course in a three-semester, unified treatment of differential and integral calculus of a single variable including integration; techniques of integration; derivatives and integrals of inverse trigonometric; logarithmic; exponential and hyperbolic functions; improper integrals; numerical methods; infinite sequences and series; polar and parametric equations; conic sections; Taylor formulas; indeterminate forms; power series; and applications of integration. Primarily for Science, Technology, Engineering & Math Majors.

27298	LEC	7:00 am - 8:10 am	MTWTh	Lopez, A E	F5-306
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18942	LEC	8:00 am - 9:15 am	MTWTh	Ravanbakhsh, H	B3-305
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MATH 267-Calculus with Analytic Geometry III (UC/CSU) - 5 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 266

Math 267 is the third course in a three-semester, unified treatment of calculus including vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem, quadric surfaces, vector and parametric equations in two and three space, curvature, cylindrical and spherical coordinates, gradient, maxima and minima for functions of several variables, surface integrals, and line integrals.

18948	LEC	8:00 am - 9:10 am	MTWTh	Maheta-Wells, P	F5-310
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MATH 270-Linear Algebra (UC/CSU) - 3 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 266

Math 270 develops the techniques and theory needed to solve and classify 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, linear transformations, and diagonalization. Selected applications of linear algebra are included.

22485	LEC	8:00 am - 9:25 am	MW	Avila, L	FF5-415
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Class No	Component	Start/End Time	Days	Instructor	Room
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MATH 275-Ordinary Differential Equations (UC/CSU) - 3 Units*Requirement Designation: Meets IGETC 2A CSU B4***Enrollment Requirement:** Prerequisite: MATH 266

Math 275 provides the student with a basic understanding of the theory and content of ordinary differential equations. Various methods of solving these equations, especially first and second order, are emphasized as are solutions to physical applications problems. Other topics covered include existence and uniqueness theorems, systems of linear differential equations, numerical and graphical methods using computers, and the Laplace transform.

25819	LEC	8:00 am - 9:25 am	TTh	Avila, L	FF5-415
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Microbiology**MICRO 001-Introductory Microbiology (UC/CSU) - 5 Units***Requirement Designation: Meets IGETC 5B 5C CSU B2 B3***Enrollment Requirement:** Prerequisite: CHEM 051 OR CHEM 101 and BIO 003 or BIO 005 or BIO 006 or ANATOMY 001

This course examines microbiological principles related to the morphology, metabolism and genetics of bacteria and distinguishing characteristics of viruses, protozoa, fungi, and multicellular parasites, with applications to human disease and immunology. The labs include microscopy, aseptic technique in the handling of bacteria, and isolation, cultivation, staining, identification, and control of bacterial populations. It is intended principally for life science and allied health majors with 6 hours of lab each week.

19067	LEC	11:15 am - 12:40 pm	MW	Wong, R K	B3 305
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AND

19068	LAB	7:50 am - 11:00 am	MW	Wong, R K	C4-408
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MICRO 020-General Microbiology (UC/CSU) - 4 Units*Requirement Designation: Meets IGETC 5B 5C CSU B2 B3***Enrollment Requirement:** Prerequisite: CHEM 051 OR CHEM 101 and BIO 003 or BIO 005 or BIO 006 or ANATOMY 001

This course examines microbiological principles related to the morphology, metabolism and genetics of bacteria and distinguishing characteristics of viruses, protozoa, fungi, and multicellular parasites, with applications to human disease and immunology. The labs include microscopy, aseptic technique in the handling of bacteria, and isolation, cultivation, staining, identification, and control of bacterial populations. It is intended principally for allied health majors with 3 hours of lab each week.

19095	LEC	8:30 am - 9:55 am	TTh	Pantastico Caldas, M C	C4-406
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AND

19096	LAB	10:05 am - 11:30 am	TTh	Pantastico Caldas, M C	C4-408
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19093	LEC	2:50 pm - 4:15 pm	TTh	Aguilar, J	C4-424
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AND

19094	LAB	4:25 pm - 5:50 pm	TTh	Aguilar, J	C4-408
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21957	LEC	7:35 pm - 9:00 pm	MW	Wong, R K	C4-406
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AND

21958	LAB	6:00 pm - 7:25 pm	MW	Wong, R K	C4-408
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Class No	Component	Start/End Time	Days	Instructor	Room
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Microcomputer Technician**MICROTK 077-Cisco Networking Academy - Semester I - 3 Units**

The first in a four course sequence. that qualifies the student to take the CISCO CCNA Certification Test; and covers Fundamentals of Computer Internet-working, Safety Technology, Protocols, Network Theory and Standards, Cabling, Electrical Considerations, OSI Models, IP Addressing and basic networking Hardware.

22685	LEC	6:00 pm - 8:05 pm	T	STAFF, L	C4-302
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AND

22686	LAB	6:00 pm - 9:10 pm	Th	STAFF, L	C4-302
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MICROTK 078-Cisco Networking Academy-Semester II - 3 Units

This is the second course in a four course sequence that qualifies the student to take the CISCO CCNA Certification Test; and covers router fundamentals, beginning router setup and configuration, routed and routing protocols, WAN fundamentals, network troubleshooting and network management.

25338	LEC	7:00 am - 9:05 am	T	Lampano, R S	C4-302
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AND

25339	LAB	9:15 am - 12:25 pm	T	Lampano, R S	C4-302
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23860	LEC	6:00 pm - 8:05 pm	T	Baik, S J	C4-302
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AND

23861	LAB	6:00 pm - 9:10 pm	Th	Baik, S J	C4-302
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MICROTK 160-It Essentials Application Software Fundamentals (CSU) - 2 Units

Instruction and demonstrations are provided on the application, set-up, configuration and operation of a wide ranger of computer programs.

19138	LEC	7:00 am - 7:50 am	W	Chavez, E L	C4-301
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AND

19139	LAB	8:00 am - 11:10 am	W	Chavez, E L	C4-302
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MICROTK 162-It Essentials Networking Personal Computers - 4 Units

The course will assist students in designing, selecting, configuring and installing local area networks. System administration and troubleshooting is also covered in detail.

19140	LEC	7:00 am - 9:05 am	T	STAFF, L	C4-301
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AND

19141	LAB	7:00 am - 9:50 am	Th	Chavez, E L	C4-302
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And	LAB	9:15 am - 12:45 pm	T	STAFF, L	C4-301
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MICROTK 164-It Essentials Microcomputer Theory And Servicing - 5 Units

The course provides servicing techniques for microcomputers and their related peripherals. Hands-on instruction is provided in diagnosing a range of microcomputers malfunctions.

19142	LEC	7:00 am - 10:10 am	M	Zhang, M	C4-301
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AND

19143	LAB	10:20 am - 1:30 pm	M	Zhang, M	C4-301
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And	LAB	10:20 am - 1:30 pm	Th	Zhang, M	C4-302
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MICROTK 166-Ccna Security - 3 Units

This course provides knowledge and skills to administer network devices and applications in a security infrastructure, recognize network vulnerabilities, and detect security threat. This course

Class No	Component	Start/End Time	Days	Instructor	Room
25384	LEC	7:30 am - 9:35 am	Sa	Baik, S J	C4-302
AND					
25385	LAB	9:45 am - 12:55 pm	Sa	Baik, S J	C4-302

Motorcycle Repair Mechanic

MCYCMEK 214-Motorcycle Electrical Principles And Repair (CSU) - 4 Units

Course offers instruction in the area of motorcycle electrical systems.

19019	LEC	6:00 pm - 7:25 pm	TTh	Mostafa, O	B1-124
AND					
19020	LAB	7:35 pm - 9:00 pm	TTh	Mostafa, O	B1-124

MCYCMEK 216-Motorcycle Engine Overhaul And Diagnosis (CSU) - 4 Units

Instruction is offered in the areas of motorcycle engine overhaul. Upon completion the student will learn the principles of motorcycle engine overhaul, learn the related sciences such as physics and mathematics applied to the topic, and will be able to disassemble, inspect, diagnose and reassemble motorcycle engines.

19021	LEC	7:30 am - 10:40 am	Sa	Mostafa, O	B1-124
AND					
19022	LAB	10:50 am - 2:00 pm	Sa	Mostafa, O	B1-124

Music

MUSIC 101-Fundamentals Of Music (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3A CSU C1

This course is designed for the general student and covers the fundamentals of music, including notation, meters and rhythm, scales and key signatures, intervals, triads, and musical symbols and terminology.

10767	LEC	7:00 am - 8:25 am	MW	Ray, E J	F5-201
10782	LEC	8:35 am - 10:00 am	MW	Ray, E J	F5-201
10762	LEC	11:45 am - 1:10 pm	TTh	Carter, T M	F5-201
10829	LEC	11:45 am - 1:10 pm	MW	Ray, E J	F5-201
10810	LEC	1:20 pm - 2:45 pm	TTh	Carter, T M	F5-201
22467	LEC	3:00 pm - 4:25 pm	MW	Stuntz, L A	F5-201
25728	LEC	6:00 pm - 9:10 pm	Th	Wachs, M B	F5-206

Nursing, Registered

REGNRSR 123-Nursing Process And Communication (CSU) - 2 Units

Enrollment Requirement: Prerequisite: REGNRSR 119 and REGNRSR 125

This course offers the study and practice of the proper methods and procedures used in installing plumbing fixtures and accessories. Installing, fabricating and testing fixtures applicable to residential and commercial plumbing are covered.

12033	LEC	12:00 pm - 2:05 pm	Th	Forsha, C	B3-207
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Department Consent Required

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
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REGNRSG 134-Nursing Simulation Lab (CSU) - 1 Unit

This course is designed to allow students to practice nursing skills in a structured setting. It will make use of patient care scenarios in which evidence based practice will be emphasized. It must be taken in semesters 1, 2 and 3. It is optional in semester 4. The class will be individualized to meet students needs.

12733	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-160
Department Consent Required					
12739	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-160
12752	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-160
12768	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-160

REGNRSG 136-Nursing Simulation Lab Intermediate - 1 Unit

This course is designed to allow students to practice intermediate nursing skills in a structured setting. It will make use of complex patient care scenarios in which evidence based practice will be emphasized. It must be taken in semester 2. The class will be individualized to meet students needs.

12780	LAB	3:15 hrs/wk	TBA	Barcroft, T M	B3-164
12790	LAB	3:15 hrs/wk	TBA	Barcroft, T M	B3-164

REGNRSG 137-Nursing Simulation Lab Advanced - 1 Unit

This course is designed to allow students to practice advanced nursing skills in a structured setting. It will make use of patient care scenarios in which evidence based practice will be emphasized. It must be taken in semester 3. The class will be individualized to meet students needs but will focus on administration of care to patient's with complex nursing problems.

12796	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-164
12808	LAB	3:15 hrs/wk	TBA	Kendrick, M D	B3-164

Paralegal

PALEGAL 010-Introduction To Law And Legal Profession (CSU) - 3 Units

Introduction To Law And Legal Profession

13405	LEC	8:35 am - 10:00 am	MW	Gary, K LC4-302
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PALEGAL 012-Tort Law - 3 Units

Tort Law

25718	LEC	10:10 am - 11:35 am	MW	Gary, K LC4-302
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PALEGAL 017-Legal Writing - 3 Units

Legal Writing

21558	LEC	11:45 am - 1:10 pm	MW	Gary, K LC4-302
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Philosophy

PHILOS 001-Introduction To Philosophy (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 3B CSU C2

Introduction To Philosophy

15196	LEC	8:35 am - 10:00 am	MW	Sargent, M E	F5-210
15207	LEC	8:35 am - 10:00 am	TTh	Shirikjian, V G	F5-215

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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
15199	LEC	10:10 am - 11:35 am	MW	Sargent, M E	F5-210
15190	LEC	11:45 am - 1:10 pm	TTh	Shirikjian, V G	F5-215
19459	LEC	11:45 am - 1:10 pm	MW	STAFF, L	F5-210
15215	LEC	6:00 pm - 9:10 pm	Th	Egan, R JF5-315	

PHILOS 008-Deductive Logic (UC/CSU) - 3 Units

Requirement Designation: Meets CSU A3

Deductive Logic

25733	LEC	10:10 am - 11:35 am	TTh	Shirikjian, V G	F5-212
15721	LEC	6:00 pm - 9:10 pm	T	Egan, R JF5-315	

Physics

PHYSICS 006-General Physics I (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Prerequisite: MATH 240

This is the first course of a two semester sequence and considers the fundamental principles and applications of classical mechanics, gravitation, thermodynamics, fluids, periodic motion and waves at the algebra/trigonometry level of mathematical sophistication. The laboratory includes both quantitative and qualitative experiments which permit students to verify, illustrate, and deduce various laws of physics.

13200	LEC	1:00 pm - 4:10 pm	F	De, R	C4-420
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AND

13202	LAB	6:30 pm - 9:40 pm	W	Khan, M	C4-420
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PHYSICS 011-Introductory Physics (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Corequisite: CHEM T 111 OR CHEM T 113 OR MATH 114 OR MATH 115

This is an introductory course that covers the wide range of topics included in a basic physics course such as kinematics of one- and two-dimensional motion, circular motion, Newton's laws, work and energy, thermodynamics, wave motion, oscillation, optics, electricity and magnetism, and nuclear and atomic Physics. Students analyze conceptual questions as well as solve quantitative problems using Algebra.

13590	LEC	7:00 am - 10:10 am	T	STAFF, L	C4-422
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AND

13597	LAB	7:00 am - 10:10 am	Th	Whiting, R F	C4-424
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25784	LEC	7:00 am - 10:05 am	M	Shields, V B	C4-424
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AND

25785	LAB	7:00 am - 10:05 am	W	Shields, V B	C4-424
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13619	LEC	8:00 am - 11:10 am	F	Shields, V B	C4-406
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AND

13630	LAB	11:20 am - 2:30 pm	F	Shields, V B	C4-424
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13682	LEC	8:00 am - 11:10 am	Sa	De, R	C4-420
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AND

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
13694	LAB	12:00 pm - 3:10 pm	Sa	De, R	C4-420

PHYSICS 012-Physics Fundamentals (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 5A CSU B1

Enrollment Requirement: Corequisite: CHEM T 111 or MATH 113 or MATH 115

This course provides a survey of physics including laws of motion, properties of matter, heat, sound, electricity and magnetism, light, atomic and nuclear physics, and relativity. There will be given a historic perspective and applications in today's culture.

13713	LEC	7:00 am - 10:10 am	T	STAFF, L	C4-422
13706	LEC	8:00 am - 11:10 am	F	Shields, V B	C4-406

PHYSICS 101-Physics For Engineers And Scientists I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 5A 5C CSU B1 B3

Enrollment Requirement: Corequisite: MATH 265

Advisory: PHYSICS 011 or 012

Physics For Engineers And Scientists I

22517	LEC	10:10 am - 11:35 am	MW	Klee, V	C4-422
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AND

22518	LAB	11:45 am - 2:55 pm	MW	Klee, V	C4-422
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PHYSICS 102-Physics For Engineers And Scientists II (UC/CSU) - 5 Units

Enrollment Requirement: Prerequisite: PHYSICS 101

Corequisite: MATH 266

Physics For Engineers And Scientists II

25589	LEC	3:05 pm - 4:30 pm	MW	Klee, V	C4-422
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AND

25590	LAB	4:40 pm - 7:50 pm	MW	Klee, V	C4-422
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PHYSICS 103-Physics For Engineers And Scientists III (UC/CSU) - 5 Units

Enrollment Requirement: Prerequisite: PHYSICS 102

Corequisite: MATH 267

Physics For Engineers And Scientists III

25593	LEC	3:00 pm - 4:25 pm	TTh	Moreno, M A	B3 305
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AND

25594	LAB	4:35 pm - 7:45 pm	Th	Moreno, M A	C4-422
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And	LAB	4:35 pm - 7:45 pm	T	Klee, V	C4-422
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Physiology

PHYSIOL 001-Introduction To Human Physiology (UC/CSU) - 4 Units

Requirement Designation: Meets IGETC 5B 5C CSU B2 B3

Enrollment Requirement: Prerequisite: ANATOMY 001 and CHEM 051 or CHEM 065 or CHEM 101

This course examines the function of cells, tissues, and organs of these human systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, lymphatic/immune, and reproductive. Laboratory activities explore major physiological principles.

14620	LEC	8:00 am - 9:25 am	TTh	Ge, A L	B3-308
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2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
AND					
14623	LAB	9:35 am - 12:45 pm	Th	Gee, A L	C4-468
14630	LEC	9:40 am - 11:05 am	MW	Gee, A L	B3 305
AND					
14634	LAB	9:40 am - 12:50 pm	T	Gee, A L	C4-468

Plumbing

PLUMBNG 026-Plumbing Layout And Estimating I - 3 Units

This course covers fundamentals of blueprint reading for residential plumbing with an introduction to piping layout and design and basic estimating procedures. An overview of piping and fitting nomenclature, measurements, and related calculations, as well as techniques in sketching, along with orthographic, and isometric drawing creation are included.

10185	LEC	6:00 pm - 9:10 pm	M	Galvan, W M	E2-200B
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PLUMBNG 027-Plumbing Layout And Estimating II - 3 Units

This course is a study of blueprints and specifications as related to plumbing layout and estimating. Knowledge and experience of students, including the application of codes and standards, are utilized in the creation of estimates. Principles of estimating, including materials, labor, overhead, and profit are reviewed. Layout procedures for one-and two-story residential, commercial and industrial units are examined as well as estimating procedures for each of these units. Pricing methods and bidding practices are included.

25824	LEC	6:00 pm - 9:10 pm	F	Jones, L	E2-222
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PLUMBNG 028-Plumbing Code I - 3 Units

Introduction is given in plumbing codes and ordinances that affect rough-in work, in city and county areas. Installation of wastes, vents, clean-outs, traps, gas fittings, gas vents and water pipe requirements are reviewed.

10200	LEC	6:00 pm - 9:10 pm	W	Jones, L	E2-222
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PLUMBNG 029-Plumbing Code II - 3 Units

Instruction is given in the uniform plumbing code that involves the current regulations of water and gas systems, fixture installation, water heaters, joints and connections, introduction to appendix 'A' and reference standards.

10212	LEC	6:00 pm - 9:10 pm	Th	Jones, L	E2-222
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PLUMBNG 031-Backflow Prevention Devices - 3 Units

This course is designed to prepare student for Backflow Prevention Assembly Tester Certification. Instruction is given in fundamentals of cross-connection control including State, County, Health Department, and Municipal codes. Water Purveyor rules and regulations are reviewed in this course. Emphasis is given to laboratory work in installing, operating, testing, troubleshooting, and maintaining Pressure, Spill Resistant Pressure, and Two Check Type Pressure, Vacuum Breakers as well as Double Check Valve, Double Check Valve-Detector, Reduced Pressure Principle, and Reduced Pressure Principle-Detector Backflow prevention Assemblies.

22497	LAB	6:00 pm - 9:10 pm	TTh	Galvan, W M	E2-200B
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PLUMBNG 111-Introduction To Plumbing - 3 Units

This course surveys the history of the Plumbing Industry; Highlights occupational information, Evokes

Class No	Component	Start/End Time	Days	Instructor	Room
job ethics and instructs on career information; The course also covers occupational health and safety hazards, provides an overview of Plumbing systems, and introduces the tools of the trade.					
10276	LAB	7:00 am - 10:35 am	TTh	Galvan, W M	E2-352

PLUMBNG 112-Fundamentals Of Plumbing - 3 Units

This course studies fundamentals of plumbing calculations and elementary drawings for beginners. Topics include pipe sizes and calculations, flow in pipe, friction design application, Instruction is given in the principles and design of water supply, fuel gas distribution, and D.W.V. (Drain, Waste and Vent).

10302	LEC	10:45 am - 12:10 pm	TTh	Galvan, W M	E2-352
10286	LEC	6:00 pm - 9:10 pm	M	Slade, T W	E2-250

PLUMBNG 113-Basic Plumbing Principles And Practices - 6 Units

This course introduces the fundamentals of plumbing principals and practices. Topics include installation basics, repair techniques, and nomenclature of pipes, fittings, and fixtures. Instruction is given on elementary drawings, plan reading, general specifications, and trade calculations as related to construction documents.

10312	LEC	7:00 am - 8:15 am	MWF	Galvan, W M	E2-352
AND					
10319	LAB	8:25 am - 10:50 am	MWF	Galvan, W M	E2-252

PLUMBNG 121-Working Drawings And Layout I - 3 Units

This course offers instruction in basic blueprints, estimating and drafting related to the plumbing industry; proper methods and procedures of plan interpretation and application. This course also offers exposure to the plumbing code, manufacturer's data sheets, and plumbing specifications.

10330	LEC	7:00 am - 8:25 am	MW	Jones, L	E2-222
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PLUMBNG 122-Plumbing Mathematics And Procedures II - 3 Units

This course offers instructions in measuring, material purchases and return procedures, capacity loading, pressure calculations and gas conversions related to the plumbing industry, with emphasis on formulas calculations peculiar to the industry.

10348	LEC	7:00 am - 8:25 am	TTh	Jones, L	E2-222
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PLUMBNG 123-Plumbing Practices And Installation - 6 Units

This course offers the study and practice of the proper methods and procedures used in installing plumbing fixtures and accessories. Installing, fabricating and testing fixtures applicable to residential and commercial plumbing are covered.

10371	LAB	8:35 am - 11:45 am	MTWThF	Jones, L	E2-222
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PLUMBNG 131-Working Drawing II - 3 Units

This course is a study of blueprints, plans, and drawings as related to the plumbing trade. Skills, including the interpretation of applicable code and standards. Basic principles of estimating, including materials and their quantities are reviewed.

10380	LEC	7:00 am - 8:25 am	TTh	Slade, T W	E2-200B
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PLUMBNG 132-Plumbing Mathematics And Procedures II - 3 Units

Instruction is given in layout procedures involving applied calculations concerning the plumbing

2019 Fall SCHEDULE

LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
trades. Instruction is also given in layout and design criteria with hands on laboratory procedures.					
10396	LAB	8:35 am - 12:10 pm	TTh	Slade, T W	E2-200

PLUMBNG 133-Installation And Plumbing Fixtures - 6 Units

This course covers fabrication, erection of piping, layout methods, process piping, blueprint installations and testing of plumbing fixtures and appliances.

10407	LEC	7:00 am - 8:05 am	MWF	Slade, T W	E2-200B
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AND

10413	LAB	8:15 am - 10:45 am	MWF	Slade, T W	E2-200
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PLUMBNG 141-Advance Layout And Procedures - 3 Units

This course covers proper methods of layout and installation procedures, fabrication, and erection of piping in commercial buildings in compliance with local and national codes.

10419	LEC	7:00 am - 8:25 am	MW	Dean, C R	E2-200B
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PLUMBNG 142-Servicing Of Plumbing Fixtures And Appliances - 3 Units

This course covers proper methods of repairing plumbing fixtures and appliances, preparing for the repair job, and estimating the job.

10443	LAB	8:35 am - 11:45 am	MW	Dean, C R	E2-200B
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PLUMBNG 143-Plumbing Code I - 3 Units

This course covers building codes as they relate to plumbing, with emphasis on the effective use of applicable codes and hands-on laboratory projects.

10465	LAB	7:00 am - 10:10 am	TTh	Whitaker, J K	E2-200
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PLUMBNG 144-Special Purposes Installation - 3 Units

This course covers fabrication and erection of piping for the proper installation of special appliances and fixtures and special methods used in the construction of these fixtures, as well as testing procedures.

10483	LAB	7:00 am - 11:50 am	F	Whitaker, J K	E2-200
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And	LAB	10:20 am - 11:05 am	TTh	Whitaker, J K	E2-200
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PLUMBNG 941-Cooperative Education - Plumbing - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

19289	LEC	4:25 hrs/wk	TBA	Blumenfeld, S	E2-104
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Please send your best email address to Blumens@lattc.edu once you enroll in this Co-Op Ed class.

Political Science

POL SCI 001-The Government Of The United States (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4H CSU D8

The Government Of The United States

15718	LEC	8:35 am - 10:00 am	MW	Vaden, B D	F5-111
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15727	LEC	8:35 am - 10:00 am	TTh	Vaden, B D	F5-111
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15752	LEC	9:00 am - 12:10 pm	Sa	Tabakian, J P	F5-315
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2019 Fall SCHEDULE

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Class No	Component	Start/End Time	Days	Instructor	Room
15719	LEC	10:10 am - 11:35 am	MW	Vaden, B D	F5-111
15736	LEC	10:10 am - 11:35 am	TTh	Vaden, B D	F5-111
15722	LEC	11:45 am - 1:10 pm	MW	Vaden, B D	F5-111
15742	LEC	1:35 pm - 3:00 pm	TTh	Penn, G J	F5-212
15765	LEC	6:00 pm - 9:10 pm	T	Sanchez, S	F5-301
15779	LEC	6:00 pm - 9:10 pm	Th	Wang, P Y	F5-301

POL SCI 002-Modern World Governments (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4H CSU D8

Modern World Governments

16603	LEC	1:20 pm - 2:45 pm	TTh	Elac, J	F5-315
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Power Line Mech Trne

ELECL 601A-Power Line Mechanic - Trainee (600 Hours) Part A - 6 Units

Enrollment Requirement: Prerequisite: ECONMT 119 or ECONMT 173

Note: Note: Department clearance required for enrollment. Please see a counselor for more details.

The goal of this course is to produce qualified candidates for various Power Line Mechanic training programs. Development of basic pre-apprentice skills needed to be successful will be emphasized. These skills include: overall safety considerations, power pole and tower climbing skills, knowledge of the basic tools and materials involved with the electrical line crafts, general construction standards, basic rigging principles, and basic electrical theory that is specific to this trade. A power pole-climbing certificate of competencies is granted to students who successfully complete this course. This course meets or exceeds the equivalent industry recognized 600 hour programs. Special Note: Students during the course of instruction will be required to lift up to 60 lbs with repetition and will be required to climb and perform installation and maintenance operations at the top of 30 foot power poles. Physical or psychological impairments that might limit your abilities to succeed should be considered. Part A is the lecture module of the standard 601 class, allows for offering the program over an extended period.

25823	LEC	7:00 am - 2:20 pm	MTWThF	Elarton-Selig, W D	B1-208
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ELECL 601A is used only to maintain priority registration while the pre reqs and the physical testing is completed. Students that are on the 601A wait list and meet all the conditions of enrollment will be enrolled into the final ELECL 601 in the order of the wait list up until the class limit is reached. You will not be enrolled into the final course until the beginning of the semester.

Process Plant Technology

PRPLTEK 102-Process Measurement And Control Fundamentals (CSU) - 3 Units

The purpose of this course is to provide an introduction to the fundamentals of process variables and a variety of instruments used to sense, measure, transmit, and control process plant operations within chemical manufacturing, oil refineries and wastewater treatment industries.

26895	LEC	10:15 am - 1:20 pm	W	Shields, V B	C4-424
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PRPLTEK 103-Process Plant Equipment (CSU) - 3 Units

This course introduces the student to the generic equipment used in the process plant industry. Students will learn the fundamental principles of operation, construction, and application of piping,

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LA Trade-Technical College

Class No	Component	Start/End Time	Days	Instructor	Room
					pipe fitting, steam traps, valves, pumps compressors, steam turbines, electric motors, furnaces, heat exchangers, cooling towers, storage tanks, distillation towers reactors and process instrumentation.
25768	LEC	10:15 am - 12:20 pm	M	Sutton, C	C4-424
AND					
25769	LAB	12:30 pm - 3:40 pm	M	Sutton, C	C4-424

PRPLTEK 104-Introduction To Applied Sciences - 4 Units

This course provides an introduction to the field of environmental, safety, and health within the chemical laboratory, biotechnology, biomanufacturing, waste water treatment and chemical process industries. Students will be introduced to various types of laboratory and plant safety techniques and hazards. In addition an overview will be provided of safety and environmental systems and equipment, and state and federal regulations under which laboratory testing, plant processes, bio and chemical manufacturing are governed.

28119	LEC	10:00 am - 11:05 am	F	Acero, G	C4-305
AND					
28120	LAB	11:10 am - 5:25 pm	F	Acero, G	C4-305

PRPLTEK 202-Introduction To Process Plant Troubleshooting - 3 Units

This course introduces students to the troubleshooting processes involved in the investigation, identification and eliminating of the type of faults which are common to process plant operations.

25779	LEC	8:00 am - 11:10 am	Th	Shields, V B	C4-305
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PRPLTEK 204-Ptech Instrumentation - Computer Applications - 2 Units

This advanced course introduces students to the computerized software used to manipulate process operations in chemical industries including petrochemical, wastewater, pharmaceutical and numerous other operations.

25774	LEC	1:30 pm - 3:35 pm	W	Shields, V B	C4-305
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Psychology

PSYCH 001-General Psychology I (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4I CSU D9

Enrollment Requirement: Prerequisite: English 028 or English 101 or English 101 Placement
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 but are not limited to 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.

17561	LEC	7:00 am - 8:25 am	MW	Bentley, M J	F5-213
17565	LEC	8:35 am - 10:00 am	MW	Bentley, M J	F5-213
17572	LEC	8:35 am - 10:00 am	TTh	Bentley, M J	F5-213
17569	LEC	10:10 am - 11:35 am	MW	Koritzke, L S	F5-312
17574	LEC	10:10 am - 11:35 am	TTh	Bevacqua, A E	TBA 1
17581	LEC	11:45 am - 1:10 pm	TTh	Bentley, M J	F5-213
17587	LEC	6:00 pm - 9:10 pm	M	Miller, E L	F5-213
19292	LEC	3:10 hrs/wk	TBA	Koritzke, L S	ON LINE

Class No	Component	Start/End Time	Days	Instructor	Room
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PSYCH 002-Biological Psychology (UC/CSU) - 3 Units*Requirement Designation: Meets IGETC 5B CSU B2***Enrollment Requirement:** Prerequisite: PSYCH 001

Advisory: English 28

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research.

17959	LEC	11:45 am - 1:10 pm	MW	Cain, L C	F5-213
25253	LEC	6:00 pm - 9:10 pm	W	Wallach, M D	F5-213

PSYCH 013-Social Psychology - 3 Units**Enrollment Requirement:** Prerequisite: PSYCH 001

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 but are not limited to: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, helping behavior, obedience and social cognition.

27653	LEC	3:10 hrs/wk	TBA	Koritzke, L S	ON LINE
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PSYCH 041-Life-Span Psychology: From Infancy To Old Age (UC/CSU) - 3 Units*Requirement Designation: Meets CSU E***Enrollment Requirement:** Prerequisite: PSYCH 001

Advisory: English 28

This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems.

18128	LEC	10:10 am - 11:35 am	MW	Bentley, M J	F5-213
18129	LEC	10:10 am - 11:35 am	TTh	Bentley, M J	F5-213
18130	LEC	11:45 am - 1:10 pm	MW	Koritzke, L S	F5-312
18131	LEC	6:00 pm - 9:10 pm	T	Essex, R W	F5-213
18132	LEC	3:10 hrs/wk	TBA	Koritzke, L S	ON LINE

Real Estate**REAL ES 001-Real Estate Principles (CSU) - 3 Units**

Real Estate Principles

10981	LEC	6:00 pm - 9:10 pm	Th	Porter, A E	C4-210
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REAL ES 003-Real Estate Practices (CSU) - 3 Units

Class No	Component	Start/End Time	Days	Instructor	Room
Real Estate Practices					
20062	LEC	6:00 pm - 9:10 pm	M	Porter, A E	C4-210

REAL ES 007-Real Estate Finance I (CSU) - 3 Units

Real Estate Finance I

21561	LEC	6:00 pm - 9:10 pm	T	Smith, K L	C4-210
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Refrig & Air Condition Mechan**REF A/C 100-Air Conditioning Project Management - 3 Units**

This course provides HVAC Industry Project Manager instruction. Topics covered will include blueprint reading, Microsoft spreadsheets, Microsoft Word documents, Microsoft Project, design build criteria, estimating, change orders, request for information, GANTT Charts, scheduling, schedule of values, purchase orders, submittals, transmittals, reading of air balance reports, warranty letters and close out packages.

28121	LEC	6:00 pm - 9:10 pm	W	Kirschenbaum, B D	E2-232
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REF A/C 101-Air Conditioning And Refrigeration Principles And Practices-First Semester - 9 Units

This course covers Refrigeration and Air Conditioning Theory, Fundamentals, and practices for entry level students. Topics discussed include refrigeration and air conditioning system components, maintenance procedures, service procedures, and Thermodynamics.

11335	LEC	7:00 am - 10:10 am	F	Cioffi, G	E2-250
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AND

11341	LAB	7:00 am - 11:50 am	MTWTh	Cioffi, G	E2-250
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REF A/C 123-Pipe And Tube Joining Processes - 1 Unit

This course assesses assembly of components into operating systems using techniques employed by the industry.

11364	LAB	7:00 am - 10:10 am	M	Dozier, K M	E2-237
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REF A/C 124-Refrigeration Electrical Circuits And Controls - 5 Units

This course covers the application of electrical principles and practices, including safety and PPE, utilized in the performance of the duties required of a HVACR Technician.

11373	LAB	7:00 am - 12:20 pm	TWTh	Dozier, K M	E2-237
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REF A/C 125-Refrigeration System Components - 3 Units

Instruction is given in basic electricity and electrical components as they relate to the HVAC&R industry. The use of electrical schematic diagrams is stressed throughout the semester.

11377	LEC	7:00 am - 10:10 am	F	Dozier, K M	E2-233
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REF A/C 141-Applied Refrigeration And Air Conditioning Principles - 3 Units**Enrollment Requirement:** Prerequisite: REF A/C 133; REF A/C 134; REF A/C 135

Corequisite: REF A/C 143

This course focuses on Chemistry as applied to the HVAC and R industry. Areas covered include Hydronics, heating and cooling load calculations, control wiring, introduction into the Uniform Mechanical Code, pneumatic controls, troubleshooting approaches, and employment.

11408	LEC	7:00 am - 10:10 am	F	STAFF, L	E2-232
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Class No	Component	Start/End Time	Days	Instructor	Room
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REF A/C 143-Refrigeration Servicing Procedures II - 3 Units**Enrollment Requirement:** Prerequisite: REF A/C 133; REF A/C 134; REF A/C 135

Corequisite: REF A/C 141 and REF A/C 145

Troubleshooting procedures in diagnosing and repairing malfunctions in refrigeration systems are studied in this course with emphasis on mechanical problems.

11417	LAB	7:00 am - 11:50 am	MW	STAFF, L	E2-221
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REF A/C 145-Air Conditioning And Refrigeration Mechanics - 3 Units**Enrollment Requirement:** Prerequisite: REF A/C 133; REF A/C 134; REF A/C 135

Corequisite: REF A/C 141 and REF A/C 143

This is a study on diagnosing and repair of refrigeration, air conditioning, gas heating systems with emphasis on the correct application of electrical theory.

11423	LAB	7:00 am - 11:50 am	TTh	Espinoza, A	E2-221
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REF A/C 160-Refrigeration System Principles And Practices - 4 Units

Students learn the fundamental refrigeration system principles, including system components refrigerants, basic electricity, motors, controls, and test equipment in domestic and commercial systems. Students get an introduction to air conditioning with an emphasis on the refrigeration cycle, and appropriate temperatures.

11432	LEC	8:00 am - 11:10 am	Sa	Needham, M R	E2-203
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AND

11436	LAB	11:20 am - 3:35 pm	Sa	Needham, M R	E2-203
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REF A/C 161-Air Conditioning System Principles And Practices (CSU) - 4 Units

This is a study of human comfort, psychometrics and heat loads. Air distribution and duct sizing, air conditioning equipment, test instruments and measurements and servicing are explored.

11463	LEC	6:00 pm - 7:25 pm	MW	Kahng, P B	E2-203
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AND

11472	LAB	7:35 pm - 9:40 pm	MW	Kahng, P B	E2-204
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REF A/C 162-Piping Principles And Practices (CSU) - 4 Units

Instruction is given on refrigerant tubing and fittings, water piping and fittings, pipe sizing, soft soldering, silver brazing and schematic drawings.

11493	LEC	6:00 pm - 7:25 pm	TTh	Corbin, B R	E2-237
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AND

11508	LAB	7:35 pm - 9:40 pm	TTh	Corbin, B R	E2-237
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REF A/C 164-Gas Heating Systems (CSU) - 4 Units

This course will provide the necessary skills needed for proper installation servicing and troubleshooting of natural gas furnaces. Topics include principles of gas combustion, gas ignition, controls, installation, and ventilation.

11520	LEC	6:00 pm - 7:25 pm	MW	Stirbis, N D	E2-237
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AND

11525	LAB	7:35 pm - 9:40 pm	MW	Stirbis, N D	E2-233
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REF A/C 188-Servicing II - 3 Units

Topics covered in this course include: electrical diagrams for testing control circuits; the total

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electrical system and protection devices on package units; analysis of failure and compressor motor burnout cleanup procedures.					
11554	LEC	3:10 hrs/wk	TBA	STAFF, L	E2-233

REF A/C 199-Mechanical Code I -Hvacr - 3 Units

Basic heating, air-conditioning and refrigeration (HVACR) mechanical codes and ordinances are the focus of this course. General codes, installation methods and equipment, electrical requirements and other specified areas in the various ordinances are reviewed.

11565	LEC	10:20 am - 1:30 pm	F	Needham, M R	E2-203
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27370	LEC	6:00 pm - 9:10 pm	F	STAFF, L	E2-250
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REF A/C 202-Refrigeration Fundamentals (CSU) - 3 Units

This course covers applied thermodynamics, types of energy, gas laws, sensible and latent heat transfer.

11584	LEC	6:00 pm - 9:10 pm	W	Espinoza, A	E2-233
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REF A/C 203-Compression Systems Of Refrigeration (CSU) - 3 Units

Instruction is given in the vapor cycle of refrigeration systems, including the study of refrigerants and their behavior in the system.

11592	LEC	6:00 pm - 9:10 pm	W	Brady, P A	E2-250
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REF A/C 204-Technical Aspects Of Refrigeration System Components - 3 Units

This Course covers the technical aspects of all major refrigeration system components. Topics covered include the principles of operation of various types of compressors, refrigerant flow controls, and system design.

11600	LEC	6:00 pm - 9:10 pm	Th	Espinoza, A	E2-250
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REF A/C 208-Refrigerant Management - Epa Section 608 (CSU) - 4 Units

This course covers Refrigerant Management including the EPA Section 608 ruling, the Montreal Protocol, Ozone depletion and Global Warming. Preparatory course for the EPA section 608 technician certification. Type I, II, III, and Universal Certification. NOTE: Certification test will be available at the end of the semester for an additional fee

11605	LEC	4:25 hrs/wk	TBA	Cioffi, G	ON LINE
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REF A/C 209-North American Technician Excellence (Nate)-Air Conditioning Specialist Certification Preparation - 4 Units

This course is a preparatory course for the industry standard NATE A/C Specialist certification examination. Topics covered in this course include safety, thermodynamics, electrical system diagnostics, airflow measurements, mechanical code, installation, service, tools, and more!

11628	LEC	4:25 hrs/wk	TBA	Cioffi, G	ON LINE
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REF A/C 250-Indoor Air Quality - 3 Units

This course emphasizes on operation of systems to provide quality air to indoor environments. AQMD requirements and pending regulations are reviewed. Organizing and implementing maintenance programs that include indoor air quality assessment and air balancing HVAC systems are covered.

11643	LEC	6:00 pm - 9:10 pm	T	Kirschenbaum, B D	E2-233
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Class No	Component	Start/End Time	Days	Instructor	Room
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REF A/C 301-Air Conditioning and Refrigeration Principles and Practices - Third Semester - 9 Units

Air Conditioning and Refrigeration Principles and Practices - Third Semester

27125	LEC	7:00 am - 10:10 am	F	Needham, M R	E2-203
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AND

27126	LAB	7:00 am - 11:50 am	MTWTh	Needham, M R	E2-203
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Restaurant Management

RESTMGT 100-Restaurant Management (CSU) - 3 Units

Introduction to managing in the restaurant industry. Effective communication, goal setting, management theory, problem solving and creating a team work environment will be discussed.

10196	LEC	8:00 am - 11:10 am	F	Wemischner, R B	B4-334
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Sign Graphics

SGNGRPH 101-Individual Lettering - 10 Units

Instruction covers identification of materials, tools, and brushes. Training is offered in drawing and brush lettering Gothic, Roman, Script, and casual letter styles. This course also includes training in techniques of layout, letter spacing, color mixing in reference to the production and sale of temporary signs. Students prepare showcards, paper signs, and other temporary display saleable items.

10390	LAB	7:00 am - 12:20 pm	TWThF	Aguilar, J C	B4-204
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SGNGRPH 102-Exterior Display Signs - 10 Units

Enrollment Requirement: Prerequisite: SGNGRPH 101

This course covers the tools and materials used to produce outdoor signs. In addition, students design, paint, and letter signs inside and outside the classroom. Students will work on a variety of materials including; canvas, plywood, aluminum, and plastic substrates, Introduction to computer generated lettering and application techniques for vinyl letters. Instruction will emphasize sign layout and design. Students will produce a 4/X8' plywood sign and an exterior wall sign.

10412	LAB	7:00 am - 12:20 pm	TWThF	Aguilar, J C	B4-204
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SGNGRPH 103-Window Signs - 10 Units

Enrollment Requirement: Prerequisite: SGNGRPH 102

Instruction covers the use of specialized tools and materials used to produce window signs. Training includes painting on exterior and reverse windows, stippling techniques, and applications of vinyl letters on glass, both exterior and reverse. In addition, students will paint a temporary splash window and apply 23K gold leaf (water gilding). Intermediate computer design including the use of plotters and application techniques.

10431	LAB	7:00 am - 12:20 pm	TWThF	Guthrie, R T	B4-204
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SGNGRPH 104-Advance Computer & Design - 10 Units

Enrollment Requirement: Prerequisite: SGNGRPH 103

Students will learn advanced design techniques, backgrounds, and color theory. Practical experience will be gained on advanced computer study, applications, and a variety of computer sign software. In addition, information will be given on small business practices - including management and pricing.

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Class No	Component	Start/End Time	Days	Instructor	Room
10459	LAB	7:00 am - 12:20 pm	TWThF	Guthrie, R T	B4-204

Students will produce a sandblasted sign, a custom contour-cut sign, and an antique sign,

SGNGRPH 203-Silk Screen Processing I (RPT 1) - 2 Units

This course will provide an introduction to the screen printing trade. Students will learn to make silk screens and will learn about copy preparation, mesh selection, frames, stencil systems, printing techniques, ink & substrate compatibility, reclamation of screens. Students will print on a variety of surfaces.

20257	LAB	9:00 am - 3:30 pm	Sa	Johnson, B T	B4-230
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SGNGRPH 204-Silk Screen Processing II - 2 Units

Enrollment Requirement: Prerequisite: SGNGRPH 203

Advisory: SGNGRPH 205

Students will be introduced to the use of solvent based inks; including; color mixing, application, and clean-up. This course also offers practice on a variety of substrates and uses including four color process printing.

10496	LAB	9:00 am - 3:30 pm	Sa	Johnson, B T	B4-230
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SGNGRPH 205-Computer Techniques For Screen Printing - 2 Units

This is a computer course that will provide the basic skills necessary for students to prepare files for output to be used in the silk screen process. Topics covered; spot color, trapping, 4 color process and simulated color separations.

13796	LEC	6:00 pm - 7:05 pm	T	Johnson, B T	D4-330
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AND

13801	LAB	7:15 pm - 9:35 pm	T	Johnson, B T	D4-330
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Sociology

SOC 001-Introduction To Sociology (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4J CSU D0

Introduction To Sociology

14753	LEC	8:35 am - 11:45 am	Sa	Garcia, J A	F5-312
14772	LEC	8:35 am - 10:00 am	TTh	Tweini, H	F5-210
14708	LEC	10:10 am - 11:35 am	MW	McClain, F	F5-107
14722	LEC	10:10 am - 11:35 am	TTh	McClain, F	F5-107
14713	LEC	11:45 am - 1:10 pm	MW	Adesina, C M	F5-215
14731	LEC	11:45 am - 1:10 pm	TTh	Tweini, H	F5-210
23298	LEC	3:15 pm - 6:35 pm	W	Williams, K L	OFF CAMP
OPEN TO ALL, LOCATION: GREEN DESIGN STEAM ACADEMY					
14788	LEC	6:00 pm - 9:10 pm	Th	Payne, V Z	F5-215
14812	LEC	3:10 hrs/wk	TBA	Garcia, J A	ON LINE

SOC 002-American Social Problems (UC/CSU) - 3 Units

Requirement Designation: Meets IGETC 4J CSU D0

American Social Problems

16134	LEC	8:35 am - 10:00 am	TTh	McClain, F	F5-107
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Class No	Component	Start/End Time	Days	Instructor	Room
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SOC 028-The Family: A Sociological Approach (UC/CSU) - 3 Units*Requirement Designation: Meets IGETC 4J CSU DO E*

The Family: A Sociological Approach

16435	LEC	8:35 am - 10:00 am	MW	Powell, S B	F5-215
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23686	LEC	6:00 pm - 9:10 pm	W	Powell, S B	F5-315
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Solid Waste Management Tech**SWM TEK 101-Introduction To Solid Waste Management - 3 Units**

This course offers instruction in the fundamentals of solid waste management including characteristics of solid wastes, refuse storage, collection, transportation, disposal methods, financing methods, and solid waste planning.

25986	LEC	6:00 pm - 9:10 pm	M	STAFF, L	
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SWM TEK 108-Solid Waste Facilities - 3 Units

This course covers history and legislation of solid waste generation, and the need for effective transfer stations and landfills. It contains an overview of the handling of materials for both resource recovery and disposition of hazardous and non-hazardous waste. The future needs of the public and private sectors are studied.

25987	LEC	6:00 pm - 9:10 pm	W	STAFF, L	
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Spanish**SPANISH 001-Elementary Spanish I (UC/CSU) - 5 Units***Requirement Designation: Meets IGETC 6A CSU C2*

An introductory course for students who have had little or no oral or written knowledge of Spanish. Students develop listening, speaking, reading, and writing skills in communicative contexts that are focused on the cultures of the Spanish-speaking world. Upon successful completion of this course students are able to understand and engage in simple conversations on familiar topics. Conducted primarily in Spanish.

16743	LEC	8:35 am - 11:05 am	MW	Quinones, H C	F5-120
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16748	LEC	8:35 am - 1:55 pm	F	Drake, M M	F5-206
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25739	LEC	8:35 am - 11:05 am	TTh	Quinones, H C	F5-120
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16737	LEC	9:00 am - 2:20 pm	Sa	Linares, M	B1-224
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16753	LEC	11:45 am - 2:15 pm	MW	Quinones, H C	F5-120
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25741	LEC	11:45 am - 2:15 pm	TTh	Quinones, H C	F5-120
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16760	LEC	6:00 pm - 8:30 pm	MW	Buscaglia, R	B1-222
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SPANISH 002-Elementary Spanish II (UC/CSU) - 5 Units*Requirement Designation: Meets IGETC 6A 3B CSU C2***Enrollment Requirement:** Prerequisite: SPANISH 1 or SPANISH 035

Students continue to practice authentic language in communicative contexts and increase their listening, speaking, reading, and writing proficiency. Upon successful completion of this course students are able to describe and narrate past real-life events, give commands and recommendations, talk about health issues, understand more complex conversations and readings,

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Class No	Component	Start/End Time	Days	Instructor	Room
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and write with more accuracy and detail. Students expand their awareness of the cultural diversity of the Spanish-speaking world. Credit is given for 2 or Spanish 35, but not for both. Prerequisite: Spanish 1 with a "C" or better, or language proficiency equivalent to two years of high-school Spanish.

16903	LEC	8:35 am - 11:05 am	TTh	STAFF, L	B1-222
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22351	LEC	9:00 am - 2:20 pm	Sa	Buscaglia, R	B1-222
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SPANISH 035-Spanish For Spanish Speakers I (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 3B

This course is intended for Spanish speakers who have grown speaking Spanish but have not formally studied it in an academic setting. Students are introduced to Spanish grammar and spelling rules with a focus on reading and writing skills and vocabulary expansion. Students practice the four language skills in the context of the geography, customs, and cultures of the Spanish-speaking countries and of the Latino experience in the United States. No prerequisites. Credit is given for either Spanish 35 or Spanish 2, but not both.

17002	LEC	11:45 am - 2:15 pm	MW	Buscaglia, R	B1-222
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17010	LEC	6:00 pm - 8:30 pm	TTh	Buscaglia, R	B1-222
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SPANISH 036-Spanish For Spanish Speakers II (UC/CSU) - 5 Units

Requirement Designation: Meets IGETC 3B

This course is the second part of a sequence of two designed for students who are speakers of Spanish but have had little or no academic preparation in standard Spanish. Students continue improving their reading and writing skills and vocabulary expansion and continue to increase their awareness and proper application of linguistic registers and Spanish grammar. Students practice discussion, listening, reading, and writing in the context of the geography, customs, and cultures of the Spanish-speaking countries and of the Latino experience in the United States. Prerequisite: Spanish 35 or equivalent preparation. Credit is given for Spanish 3 or Spanish 36, but not for both.

29031	LEC	6:00 pm - 8:30 pm	TTh	Buscaglia, R	B1-222
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Supervision

SUPV 001-Elements Of Supervision (CSU) - 3 Units

This course is a basic introductory course covering, in general terms, the total responsibilities of a supervisor in industry, such as organization, duties and responsibilities, human relations, grievances, training, rating, promotion, quality-quantity control, management-employee relations, and related topics.

17205	LEC	3:10 hrs/wk	TBA	Wilson-Aus, A M	ON LINE
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SUPV 003-Human Relations (Developing Supervisory Leadership) - 3 Units

Instruction will focus on those human relation skills the supervisory student needs to be well rounded and thoroughly prepared for a work environment characterized by economic volatility, constant change and a new level of competitiveness. This interpersonal skills approach places greater emphasis on the application of knowledge through practice, followed by feedback and reinforcement.

25712	LEC	6:00 pm - 9:10 pm	Th	Tabor, D	C4-322
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Class No	Component	Start/End Time	Days	Instructor	Room
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SUPV 011-Oral Communications - 3 Units

This course will focus on the basics of the oral communication process and how it is intertwined with the work of a supervisor. Students will plan, compose, and deliver oral presentations designed to strengthen verbal and nonverbal skills. Finally, the student will be exposed to the basic principles of management and supervision and how successful communication is fundamental to the success of supervisors.

17214	LEC	6:00 pm - 9:10 pm	T	Johnson, E R	C4-324
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Supply Water Technology

WATER 001-Water Distribution I (CSU) - 3 Units

This course provides instructions to water works design and operation for operators and others involved in the operation and design of water distribution systems. All major components of the distribution system including wells, storage reservoirs, pumps, water mains, valves, meters, and fire hydrants are fully discussed.

16514	LEC	9:00 am - 12:10 pm	Sa	Ginzburg, D	B1-223
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WATER 004-Water Purification I (Potable Water) (CSU) - 3 Units

This beginning course in water treatment covers regulations related to water treatment and water quality control, basics of water treatment plant processes and inter-relationship of processes, and introduction to operation and maintenance of water treatment plant. One of the objectives of the course is to prepare students for Grade 1 and Grade 2 Water Treatment Operator Certification by the Department Of Public Health (CDPH).

20147	LEC	1:00 pm - 4:10 pm	Sa	Ginzburg, D	B1-223
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WATER 101-Introduction To Supply Water Technology - 3 Units

The purpose of this course is to introduce the basics of water supply, sources of water supply, water chemistry, drinking water regulations, water microbiology, water quality control, and some basic arithmetic related to water distribution and water treatment problems.

10415	LEC	6:00 pm - 9:10 pm	M	Kallo, J S	B1-223
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WATER 102-Calculations And Measurement For Water Technology Programs - 3 Units

This course covers the basic math skills needed to perform in the supply & waster water fields. Emphasis is placed on the basic operations and how they are applied to the industry. Measurement calculations will be performed in both standard and metric measurements.

11148	LEC	6:00 pm - 9:10 pm	W	Kallo, J S	B1-228
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Tailoring

TAILRNG 250-Tailoring Techniques I - 2 Units

Training is offered in basic tailoring techniques. Students be instructed in welt pockets, hand tailored stitching, and finishing techniques. This course will consist of a basic and stylized tailored vest.

17259	LAB	6:00 pm - 9:10 pm	MW	Conte, R S	D4-331
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TAILRNG 251-Tailoring Techniques II - 2 Units

Enrollment Requirement: Prerequisite: TAILRNG 250

Students will receive training on trousers and casual men's style jackets. Instruction will include fly

Class No	Component	Start/End Time	Days	Instructor	Room
17260	LAB	6:00 pm - 9:10 pm	MW	Conte, R S	D4-331

TAILRNG 252-Tailoring Techniques III - 2 Units**Enrollment Requirement:** Prerequisite: TAILRNG 251

Students receive training in tailored coats, men's style shirts. Instruction will include stylized seams, cold weather techniques.

17262	LAB	6:00 pm - 9:10 pm	MW	Conte, R S	D4-331
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TAILRNG 253-Tailoring Techniques Iv - 2 Units**Enrollment Requirement:** Prerequisite: TAILRNG 252

Students will receive instruction on man's style tailored jacket including inner construction using traditional tailoring techniques.

10120	LAB	6:00 pm - 9:10 pm	MW	Conte, R S	D4-331
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TAILRNG 255-Men'S Pattern Drafting I - 2 Units

In this course students will learn the fundamentals of taking and using men's measurements for pattern making. Students will draft patterns for basic trousers, men's sport shirts, and a basic man's vest. Each pattern will be tested for fit.

21125	LAB	8:35 am - 3:05 pm	Sa	Conte, R S	D4-230
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TAILRNG 256-Men's Pattern Drafting II - 2 Units

This course in men's pattern making will introduce students to advanced styling including, jackets, and stylized pants. Students will make complete patterns for each element of a three piece suit.

21126	LAB	8:35 am - 3:05 pm	Sa	Conte, R S	D4-230
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Theater**THEATER 100-Introduction To The Theater (UC/CSU) - 3 Units***Requirement Designation: Meets IGETC 3A 3B CSU C1*

Students will survey and appreciate the art of theatre. The students are provided a wider basis for both evaluation and enjoyment of the theatrical experience. Students examine all elements of live theatre, its cultural and historical background, the contributions of various theatre artists, and its overall purpose and influence within our society. Students explore all aspects of play production: playwriting, directing, acting, criticism, theatre architecture, set design, costume design, lighting design, and the role of the audience.

11288	LEC	11:45 am - 1:10 pm	TTh	Horn, M L	F5-301
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11298	LEC	6:00 pm - 9:10 pm	M	Horn, M L	F5-301
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Visual Communications**VISCOM 118-Digital Drawing - 2 Units**

Basic training in computer illustration using the Adobe software application Illustrator. Toolbox familiarity and manipulation, menu items, and general skill application will constitute the criteria for the course.

13296	LAB	7:00 am - 12:20 pm	M	STAFF, L	D4-330
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VISCOM 119-Digital Page Layout (CSU) - 2 Units

A hands on course in the digital page layout application Adobe InDesign. Students will learn to

Class No	Component	Start/End Time	Days	Instructor	Room
construct page layouts for print, including the specification of typographic fonts, setting type in columns and wrap-arounds, working with spreads and long copy documents, using photographs and illustrations, and the preflight preparation of finished document files for print reproduction.					
13302	LEC	1:00 pm - 3:05 pm	W	Evans, G	D4-303

VISCOM 128-Designing Logos And Trademarks (CSU) - 2 Units

Introduction to the principles of trademark design and stationary production. Research, marketing, color theory, and corporate identity principles will be stressed. Logos, letterheads, business cards and envelopes will be designed for a variety of clients.

13360	LAB	7:00 am - 12:20 pm	M	Rodriguez, C J	D4-302
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VISCOM 129-Digital Photo Manipulation - 2 Units

An introductory course that concentrates on the software application Adobe Photoshop. Students will be instructed on how to use this application to create original art and graphics by manipulating scanned photography and other imagery.

13370	LAB	1:30 pm - 4:00 pm	TTh	STAFF, L	D4-330
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Wastewater Technology

WASTE 013-Wastewater Operations II - 3 Units

A comprehensive study is made of preliminary, primary, and secondary treatment systems and operations including selected field studies.

16508	LEC	6:00 pm - 9:10 pm	T	Azarbayjani, M	B1-223
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WASTE 017-Wastewater Operations Vi - 3 Units

Public health, the environment, regulations, management/supervision and report writing as practiced in wastewater and water reclamation plants safety are covered.

19290	LEC	6:00 pm - 9:10 pm	Th	Abdelaal, M A	B1-223
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WASTE 018-Water And Wastewater Mathematics - 3 Units

This is a review and practice of basic mathematical concepts required to solve wastewater treatment problems. (Note: this is not a remedial math class).

16512	LEC	6:00 pm - 9:10 pm	W	Abkian, V	B1-223
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Welding Gas And Electric

WELDG/E 100-Metal Sculpture I (RPT 1) - 3 Units

Expand beginning welding skills and metal working techniques into an exploration of metal sculpture. This course covers hot and cold working of steel. Shielded metal arc welding, oxy-fuel and plasma arc cutting, weld design and finishing techniques. Technical skills will be emphasized through hands on instruction and practice. There will be opportunity for creative expression and practical application.

16516	LAB	8:00 am - 2:30 pm	Sa	Newell, R L	B1-156
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WELDG/E 102-Pipe Welding Horizontal(2G) and Uphill(5G) (NDA) (RPT 3) - 3 Units

This course provide instruction on welding carbon steel pipe to requirements of the American Society of Manufacturing Engineers Boiler and Pressure Vessel Code- Section 9 Welding and Brazing Qualification using the shielded metal arc welding process. The course objective requires proficiency in producing high quality welds on 6 inch diameter schedule 80 pipe in the 2G and 5G welding positions.

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20378	LAB	6:00 pm - 9:10 pm	WTh	STAFF, L	B1-156

WELDG/E 104-Gas Tungsten Arc & Shielded Metal Arc Welding (NDA) - 3 Units

This course provide instruction on welding carbon steel pipe to requirements of the ASME Boiler and Pressure Vessel Code using the Gas Tungsten Arc and the Shielded Metal Arc welding processes.

21546	LAB	6:00 pm - 9:10 pm	MT	Galvez, R	B1-156
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WELDG/E 111-Acetylene Welding, Cutting And Brazing (CSU) - 5 Units

Basic applications in oxy-acetylene welding, brazing and cutting in flat and vertical positions. Students will perform SMAW on light gauge steel in all positions. Safety procedures and metal welding characteristics.

16517	LAB	7:00 am - 10:10 am	MTWThF	Hernandez, R	B1-156
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26006	LAB	11:00 am - 2:10 pm	MTWThF	Chancy, C A	B1-156
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WELDG/E 112-Welding Related Technical Instructions I - 3 Units

This course will cover the principles of oxy-acetylene welding, brazing and cutting; safety, material selection, equipment assembly, fuels torch adjustments, and movements.

26008	LEC	9:30 am - 10:55 am	MT	Chancy, C A	B1-151
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16521	LEC	11:00 am - 2:10 pm	Th	Hernandez, R	B1-151
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WELDG/E 113-Applied Mathematics I - 3 Units

This is an entry level course in welding calculations and measurements with special emphasis on the application problems encountered in the welding industry.

26011	LEC	9:30 am - 10:55 am	WTh	Chancy, C A	B1-151
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16525	LEC	11:00 am - 2:10 pm	W	Thompson, D	B1-151
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WELDG/E 121-Electric Welding I (CSU) - 5 Units

Students perform basic manipulative exercises in electric welding using low alloy and mild steel materials in all positions, safety precautions, and fire prevention.

16530	LAB	7:00 am - 10:10 am	MTWThF	Legohn, L M	B1-156
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WELDG/E 124-Blueprint Reading I (CSU) - 3 Units

This course covers the principles of reading and interpreting basic industrial blueprints as applied to the welding trade.

16536	LEC	11:00 am - 2:10 pm	M	Legohn, L M	B1-150
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WELDG/E 125-Applied Mathematics II - 3 Units

Related mathematical problems in welding in project design and construction using the fundamental principles of algebra, right angle trigonometry, and basic geometry.

16539	LEC	11:00 am - 2:10 pm	F	Newell, R L	B1-150
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WELDG/E 131-Electric Welding Ii (CSU) - 5 Units

This course will offer students an opportunity to prepare for certification testing in SMAW. There will be opportunities for improvement through supervised practice and individual coaching in SMAW technique.

16543	LAB	7:00 am - 10:10 am	MTWThF	Hernandez, R	B1-156
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22654	LAB	11:00 am - 2:10 pm	MTWThF	Chancy, C A	B1-156
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Class No	Component	Start/End Time	Days	Instructor	Room
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WELDG/E 132-Blueprint Reading II - 3 Units**Enrollment Requirement:** Prerequisite: WELDG/E 113

The course covers the principles of lines, view, size, description, print formats, fasteners, and different types of fabrication drawings; review of industrial welding prints.

22655	LEC	9:00 am - 10:25 am	MW	Chancy, C A	B1-151
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16551	LEC	11:00 am - 2:10 pm	T	Hernandez, R	B1-151
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WELDG/E 133-Welding Related Technical Instruction III - 3 Units

The course places an emphasis on materials, design, assembly procedures, electrodes selection, equipment, welding joints, terminology, welding metallurgy, and preparation for AWS and ASME welding examination.

22656	LEC	9:00 am - 10:25 am	TTh	Chancy, C A	B1-151
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16555	LEC	11:00 am - 2:10 pm	F	Legohn, L M	B1-150
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WELDG/E 141-Electric Welding Iii (CSU) - 5 Units

Students complete activities in sheet metal welding, cast iron welding, inert gas welding (MIG and TIG) and semi-automatic gas shielded welding.

16559	LAB	7:00 am - 10:10 am	MTWThF	Legohn, L M	B1-156
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WELDG/E 142-Gas Tungsten Arc Welding (TIG) & Gas Metal Arc Welding (MIG) (CSU) - 3 Units

The course covers principles in welding aluminum, stainless steel, carbon steel and the maintenance and operation of welding equipment.

16566	LEC	11:00 am - 2:10 pm	Th	Legohn, L M	B1-150
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WELDG/E 143-Welding Related Technical Instruction IV - 3 Units

The course covers the principles and theory of operating semi-automatic gas shielded welding equipment and the metallurgy of metals.

16573	LEC	11:00 am - 2:10 pm	W	Legohn, L M	B1-156
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WELDG/E 210-Metal Sculpting Laboratory (CSU) - 2 Units**Enrollment Requirement:** Prerequisite: WELDG/E 100

Expand beginning welding skills and metal working techniques into an exploration of metal sculpture.

16579	LAB	8:00 am - 2:30 pm	Sa	Newell, R L	B1-156
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WELDG/E 941-Cooperative Education - Welding Gas And Electric (CSU) (RPT 3) - 4 Units

Cooperative Education is a work experience program involving the employer, the student-employee and the college to insure that the student receives on the job training and the unit credit for work experience or volunteer work/internship. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

26208	LEC	4:15 hrs/wk	TBA	Blumenfeld, S	E2-105
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Please send your best email address to Blumens@lattc.edu once you enroll in this Co-Op Ed class.