Fall 2014
Class Schedule
September 2nd to December 20th
REGISTER TODAY!
www.lattc.edu
Accuracy Statement:

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

Please refer to the electronic version of the schedule for up-to-date/current schedule information.

www.lattc.edu/pls/trade11/sc.fall
## ACCOUNTING

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING 001</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**INTRODUCTORY ACCOUNTING I (UC:CSU)**
- **Advisory:** Business 38 and English 21.
- Introduces the fundamental principles and concepts of accounting as a basis for financial communication in business. This includes the procedures for maintaining records in business transactions and the preparation of financial statements for the sole proprietor in a service and merchandising firm. Procedures and techniques for internal control, deferrals and accruals, inventory, plant assets, accounts receivable, accounts payable, and payroll are included.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>0101</td>
<td>8:35am</td>
<td>MTWTh</td>
</tr>
<tr>
<td>3001</td>
<td>8:00am</td>
<td>SAT</td>
</tr>
<tr>
<td>3003</td>
<td>6:00pm</td>
<td>TTh</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING 002</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**INTRODUCTORY ACCOUNTING II (UC:CSU)**
- **Prerequisite:** Accounting 1.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102</td>
<td>1:30pm</td>
<td>SAT</td>
</tr>
<tr>
<td>3002</td>
<td>6:00pm</td>
<td>MW</td>
</tr>
</tbody>
</table>

## ADMINISTRATION OF JUSTICE

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMINISTRATION OF JUSTICE 001</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**INTRODUCTION TO ADMINISTRATION OF JUSTICE (UC:CSU)**
- Philosophies, history, and theories of the criminal justice system, including the origins and evolution of criminal law and due process, the roles and functions of the local, state, and federal jurisdictions, and the interrelationships among criminal justice agencies: law enforcement, courts, and corrections: crime causation, 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. Three hours lecture per week.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>4650</td>
<td>6:00pm</td>
<td>W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMINISTRATION OF JUSTICE 008</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**JUVENILE PROCEDURES (CSU)**
- This course covers the juvenile justice 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>4651</td>
<td>6:00pm</td>
<td>M</td>
</tr>
</tbody>
</table>

## AMERICAN SIGN LANGUAGE

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMERICAN SIGN LANGUAGE 001</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**AMERICAN SIGN LANGUAGE I (UC:CSU)**
- This is an introductory course designed to develop basic conversational skills using the manual alphabet and American Sign Language. It is planned to assist in communicating with deaf individuals and have a better understanding of deaf culture. This course develops basic vocabulary and grammar of American Sign Language. Its emphasis is placed on comprehension skills and vital aspects of the Deaf culture and community.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>0760</td>
<td>10:00am</td>
<td>MW</td>
</tr>
<tr>
<td>0761</td>
<td>12:30pm</td>
<td>MW</td>
</tr>
<tr>
<td>3500</td>
<td>6:00pm</td>
<td>TTh</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMERICAN SIGN LANGUAGE 002</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**AMERICAN SIGN LANGUAGE II (UC:CSU)**
- **Prerequisite:** American Sign Language I.
- This is an intermediate course in American Sign Language with special emphasis on vocabulary, grammar dialog, and on the improvement of expressive and receptive skills. This course includes exposure to deaf culture and the history of sign languages.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>0762</td>
<td>8:00am</td>
<td>MW</td>
</tr>
<tr>
<td>3501</td>
<td>6:00pm</td>
<td>TTh</td>
</tr>
</tbody>
</table>

## ANATOMY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANATOMY 001</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**INTRODUCTION TO HUMAN ANATOMY (UC:CSU)**
- **Prerequisite:** BIO 3 or 36
- A detailed study of structures and systems of the human body. Laboratory work includes microscopy, mammalian dissections, and use of anatomical models.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1633</td>
<td>11:30am</td>
<td>MW</td>
</tr>
<tr>
<td>&amp;</td>
<td>12:00pm</td>
<td>MW</td>
</tr>
<tr>
<td>1634</td>
<td>2:20pm</td>
<td>M</td>
</tr>
<tr>
<td>&amp;</td>
<td>2:20pm</td>
<td>W</td>
</tr>
<tr>
<td>1635</td>
<td>11:30am</td>
<td>TTh</td>
</tr>
<tr>
<td>&amp;</td>
<td>12:30pm</td>
<td>TTh</td>
</tr>
<tr>
<td>4097</td>
<td>6:30pm</td>
<td>T</td>
</tr>
<tr>
<td>&amp;</td>
<td>6:30pm</td>
<td>Th</td>
</tr>
</tbody>
</table>

## ANTHROPOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHROPOLOGY 101</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**HUMAN BIOLOGICAL EVOLUTION (UC:CSU)**
- **Advisory:** English 28.
- This course is an introduction to the field of biological anthropology. Topics covered include genetic inheritance, the mechanisms of evolution, the biology and behavior of living primates, the history of human evolution as seen in the fossil record, and modern human biological variation.

<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>8:35am</td>
<td>AH/T E315</td>
</tr>
<tr>
<td>1001</td>
<td>11:45am</td>
<td>AH/T E315</td>
</tr>
<tr>
<td>1002</td>
<td>10:10am</td>
<td>AH/T E315</td>
</tr>
<tr>
<td>3601</td>
<td>6:00pm</td>
<td>AH/T E323</td>
</tr>
</tbody>
</table>

Please visit the online program homepage at [http://moodle.lattc.edu](http://moodle.lattc.edu) prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

AMERICAN SIGN LANGUAGE 001 is also offered through ITV. Please see schedule ad on page 58.
ARCHITECTURE 130 2.00 Units
HISTORY OF ARCHITECTURE I (UC:CSU)
This course covers the study of architecture history from the prehistoric times to the Renaissance, the development of place and function as it is influenced by the geographical, climatic, religious, social, economic and historical forces. This course analyzes the difference between world architecture history and western architecture history, including the characteristics of Latin America, Islamic and Asia. The history of architecture is seeing through a perspective of how the built environment has responded to nature forces and resources; air, water, and land. In addition each period identifies technological innovation that characterized the historical roots in numerous civilizations.
8021 12:45pm - 1:50pm MW CY/ D302

ARCHITECTURE 152 3.00 Units
EQUIPMENT OF BUILDINGS (CSU)
Using geospatial tools and sustainable strategies this course applies the basic principles of design, selection and operation of equipment in buildings. Building equipments are systems that integrate architectural design with water distribution, water recycling and harnessing, air circulation, natural air flow, air heating and cooling, natural light, and acoustics. Passive and solar strategies are integrated into equipment as well as new technologies.
8001 9:45am - 10:50am TTh STAFF CY/ D303 & 10:50am - 12:20pm TTh STAFF CY/ D303

ARCHITECTURE 172 3.00 Units
ARCHITECTURAL DRAWING I (CSU)
This is an architecture drawing class that will focus on construction documents for wood construction. The course will cover how these architectural drawings are documents that instruct all the stake holders how to use, build and maintain a high performance building. The course will explain how construction documents made out of wood are connected to the life cycle of a building. It covers an integrated building approach, as it identifies the deliverables for: programing (identify the need), design drawings (identify the solutions), construction documents (drawings used to build the building), operation/ maintain (as built drawings) and assessment (analysis for upgrade and improvement). This course will also cover CAD, BIM, GIS tools, LEED Credits, Sustainable Standards and their relationship to a set of construction documents for wood construction. Fundamentals of architectural drafting, symbols, dimensioning, and methods of representation are also mastered during this course. The student will prepare a set of construction documents for a simple wood building structure.
8038 9:45am - 10:50am MW CY/ D331 & 10:50am - 12:20pm MW CY/ D331

ARCHITECTURE 201 3.00 Units
ARCHITECTURAL DESIGN I (UC:CSU)
This course will use sustainable strategies and geospatial tools to explore architecture design solutions. In this course students will work in a design laboratory studio exploring space and form. The solutions focus on analysis, proportion, solar passive, water conservation, biomimicry, planning layout, aesthetic, interpretation, and the nature of materials. Methods of presentations are studied, as well as design methodologies.
8042 7:00am - 8:05am TTh CY/ D302 & 8:05am - 9:35am TTh CY/ D331

ARCHITECTURE 271 3.00 Units
ARCHITECTURAL DRAWING III (CSU)
This is an architecture drawing class that will focus on construction documents for steel construction. The course will cover how these architectural drawings are documents that instruct all the stake holders how to use, build and maintain a high performance building. The course will explain how construction documents made out of concrete and masonry are connected to the life cycle of a building. It covers an integrated building approach as it identifies the deliverables for: programing (identify the need), design drawings (identify the solutions), construction documents (drawings used to build the building), operation/maintain (as built drawings) and assessment (analysis for upgrade and improvement). The student will prepare a complete set of construction documents for a simple steel building structure. Appropriate reference material that focus on concrete and masonry will be covered in class like fastening, flashing, crack control and others.
8040 9:45am - 10:50am MW CY/ D331 & 10:50am - 12:20pm MW CY/ D331
**ART**
Chair: John Glavan, Aspen Hall - AH/TE-520, (213) 763-3931

**ART 101** 3.00 Units  
**SURVEY OF ART HISTORY I (UC:CSU)**  
This course encompasses the historic study of architecture, painting and sculpture, with incidental references to the related minor arts. A survey is made of the chronological development of Western and non-European art from the Prehistoric to the Renaissance, with special emphasis upon the cultural factors that contributed to its evolution.

1425 7:00am - 8:25am MW MH 308
1426 10:10am - 11:35am MW MH 308
1427 12:00pm - 1:25pm MW MH 308
3849 6:00pm - 9:10pm M MH 309
3850 6:00pm - 9:10pm Th AH/T E206

**ART 102** 3.00 Units  
**SURVEY OF ART HISTORY II (UC:CSU)**  
A survey of the major visual arts of the Western world from the Early Renaissance to the present, linking art and architecture with social, economic, political and religious aspects of western and global cultures.

1428 8:35am - 10:00am MW MH 308

**ART 103** 3.00 Units  
**ART APPRECIATION I (UC:CSU)**  
This course is designed specifically for those students who desire to expand their visual awareness through training in visual perceptual skills. The course includes exploration of the basic elements of art; visual skills are enhanced by practice in drawing techniques based on perception. Students will acquire a broad understanding of the nature of art through study of selected works from art history.

1429 10:10am - 11:35am TTh MH 305

**ART 201** 3.00 Units  
**DRAWING I (UC:CSU)**  
Instruction is given in basic pencil drawing, charcoal, pastel, and other sketching media. Painting in wash, ink, and watercolor, from still life and outdoor assignments is included. This is a course for beginners and non art majors, as well as, a brush up course for artists.

1430 8:00am - 9:05am TTh MH 309
& 9:05am - 10:05am TTh MH 309
1431 12:30pm - 1:35pm MW MH 305
& 1:35pm - 2:35pm MW MH 305
1432 10:10am - 11:05am MW MH 305
& 11:05am - 12:15pm MW MH 305

**ART 300** 3.00 Units  
**INTRODUCTION TO PAINTING (UC:CSU)**  
An introduction to various painting materials, media, and techniques. Emphasis is placed on color mixing, value, intensity and compositional organization.

1433 10:10am - 11:10am TTh MH 309
& 11:10am - 12:15pm TTh MH 309

**ART 501** 3.00 Units  
**BEGINNING TWO-DIMENSIONAL DESIGN (UC:CSU)**  
This course introduces the elements and principles of two-dimensional (flat) design in the visual arts. Color, color theory, psychology of perception, and historical and cultural foundations are explored.

1434 12:30pm - 1:35pm TTh MH 305
& 1:35pm - 2:35pm TTh MH 305

**ASTRONOMY**
Chair: Miguel Moreno, Cedar Hall - CH/K-405, (213) 763-7322

**ASTRONOMY 001** 3.00 Units  
**ELEMENTARY ASTRONOMY (UC:CSU)**  
This course is a general introduction and overview of Astronomy and covers many topics including constellations, seasons, history, and an introduction to fundamental concepts and measurements. This course is offered in conjunction with Astronomy 1. This course uses astronomical instruments and laboratory equipment. Includes work with celestial sphere, sky charts, optical bench, telescopes, spectroscopes, and photometer. The course requires field trips for evening observations.

1600 7:00am - 8:25am MW CH/ K406
1601 1:25pm - 2:50pm MW CH/ K309
1602 10:10am - 11:35am TTh CH/ K406
4047 6:00pm - 9:10pm W CH/ K406
4045 5:00pm - 6:25pm TTh USC

**ASTRONOMY 005** 1.00 Unit  
**FUNDAMENTALS OF ASTRONOMY LABORATORY (UC:CSU)**  
This course provides the laboratory work to accompany or follow Astronomy 1. This course uses astronomical instruments and laboratory equipment. Includes work with celestial sphere, sky charts, optical bench, telescopes, spectroscopes, and photometer. The course requires field trips for evening observations.

1603 lab 7:00am - 10:10am T CH/ K420
4046 lab 7:00pm - 8:25pm TTh USC

**AUTOMOTIVE AND RELATED TECHNOLOGY**
Chair: Jess Guerra, Oak Hall - OH/F-106A, (213) 763-3901

**AUTOMOTIVE AND RELATED TECHNOLOGY 100** 3.00 Units  
**HEATING AND AIR CONDITIONING SYSTEMS THEORY, INSPECTION &RPR**  
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.

4382 5:35pm - 6:30pm TTh OH/ F128
& 6:30pm - 7:30pm TTh OH/ F128
7490 7:00am - 7:50am MTWThF OH/ F120
& 7:50am - 8:50am MTWThF OH/ F106

**AUTOMOTIVE AND RELATED TECHNOLOGY 113** 3.00 Units  
**DRIVE TRAIN COMPONENTS PRINCIPLES AND PRACTICES (CSU)**  
Instruction is offered in the, principles of operation, function and testing of manual/automatic transmissions and transaxles. Emphasis is placed on, power train systems, torque converter & planetary gear operation, gears & gear reduction. Laboratory instruction is offered in servicing of manual/automatic transmissions including, electronic shift controls, hydraulic fundamentals, fluids and sealing, clutches, and differentials.

4383 5:35pm - 6:30pm MW OH/ F130
& 6:30pm - 7:30pm TTh OH/ F130
7338 7:00am - 7:50am MTWThF OH/ F130
& 7:50am - 8:50am MTWThF OH/ F130
AUTOMOTIVE AND RELATED TECHNOLOGY 114 3.00 Units
STEERING, SUSPENSION, BRAKES, PRINCIPLES AND PRACTICES (CSU)
This course provides instruction in the theory, design, principles, diagnostics, and proper system service of automotive brake, suspension, and steering systems.
3435 5:35pm - 6:30pm MW OH F116
& 6:30pm - 9:30pm MW OH F108
7353 7:00am - 7:50am M T W Th F OH F108
& 7:50am - 12:00pm M T W Th F OH F108
(5 Week Class - Starts 10/6/2014, Ends 11/7/2014)
7341 7:30am - 8:35am SAT OH F103
& 8:35am - 3:15pm SAT OH F103
(6 Week Class - Starts 11/10/2014, Ends 12/18/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 121 3.00 Units
BASIC ENGINE THEORY INSPECTION AND REPAIR (CSU)
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.
4400 1:15pm - 3:00pm T Th OH F120
& 5:35pm - 6:30pm T Th OH F106
7342 7:00am - 7:50am M T W Th F OH F122
& 7:50am - 12:00pm M T W Th F OH F122
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)
7348 12:30pm - 1:15pm MW OH F108
& 1:15pm - 4:40pm MW OH F108
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 122 3.00 Units
ELECTRICAL/ELECTRONIC SYSTEMS THEORY, INSPECTION & REPAIR (CSU)
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.
4384 5:35pm - 6:30pm MW OH F128
& 6:30pm - 9:30pm MW OH F128
7343 7:00am - 7:50am M T W Th F OH F128
& 7:50am - 12:00pm M T W Th F OH F128
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)
7349 7:00am - 7:50am M T W Th F OH F128
& 7:50am - 12:00pm M T W Th F OH F128
(5 Week Class - Starts 10/6/2014, Ends 11/7/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 123 3.00 Units
FUEL & EMISSIONS SYSTEMS THEORY, INSPECTION & REPAIR (CSU)
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.
4390 5:35pm - 6:30pm T Th OH F116
& lab 6:30pm - 9:30pm T Th OH F108
7344 7:00am - 7:50am M T W Th F OH F116
& lab 7:50am - 12:00pm M T W Th F OH F108
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)
7350 7:00am - 7:50am M T W Th F OH F116
& lab 7:50am - 12:00pm M T W Th F OH F108
(6 Week Class - Starts 11/10/2014, Ends 12/18/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 130 3.00 Units
AUTOMOTIVE THEORY AND REPAIR I (CSU)
Instruction is offered on the areas of advanced engine construction & use of engine diagnostic equipment, standard transmissions & clutches, with emphasis on diagnosis and repair procedures. Shop practice is offered on most areas of automotive repairs: engine, transmissions, drivability, brakes, suspension, steering, and automotive accessories.
7358 7:00am - 7:50am M T W Th F OH F120
& lab 7:50am - 12:00pm M T W Th F OH F106
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 131 3.00 Units
AUTOMOTIVE THEORY AND REPAIR II
Instruction is offered on the areas of advanced emission systems diagnosis, with emphasis on 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.
4387 5:35pm - 6:30pm T Th OH F130
& lab 6:30pm - 9:30pm T Th OH F104
7360 7:00am - 7:50am M T W Th F OH F120
& lab 7:50am - 12:00pm M T W Th F OH F106
(5 Week Class - Starts 10/6/2014, Ends 11/7/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 135 3.00 Units
COMPUTER CONTROL AND FUEL INJECTION (CSU)
Instruction is offered in Automotive Computer Control and Fuel Injection Systems. Emphasis is placed on computer control electronic and fuel systems construction, function, inspection, component theory and operation, troubleshooting principles and engine condition diagnosis, testing.
7356 7:00am - 7:50am M T W Th F OH F116
& lab 7:50am - 12:00pm M T W Th F OH F108
(5 Week Class - Starts 10/6/2014, Ends 11/7/2014)
7357 7:00am - 7:50am M T W Th F OH F128
& lab 7:50am - 12:00pm M T W Th F OH F104
(6 Week Class - Starts 11/10/2014, Ends 12/18/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 140 3.00 Units
AUTOMOTIVE THEORY AND REPAIR IV (CSU)
Classroom lecture is offered in the areas of brake systems, front suspension systems, batteries, starting and charging systems, with emphasis on diagnosis and repair procedures. Shop practice is offered in most areas of automotive repairs: engine, transmissions, tune up, brakes, suspension, steering, and automotive accessories, and various other repairs using available vehicles.
7364 7:00am - 7:50am M T W Th F OH F124
& lab 7:50am - 12:00pm M T W Th F OH F104
(5 Week Class - Starts 9/2/2014, Ends 10/3/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 141 3.00 Units
AUTOMOTIVE THEORY AND REPAIR V (CSU)
Instruction is offered on the use of electrical diagnostic equipment, interpretation of wiring diagrams, engine computer controls and charging systems. Shop practice is offered on most areas of automotive repairs: engine, transmissions, drivability, brakes, suspension, steering, and automatic accessories.
7365 7:00am - 7:50am M T W Th F OH F124
& lab 7:50am - 12:00pm M T W Th F OH F104
(5 Week Class - Starts 10/6/2014, Ends 11/7/2014)
AUTOMOTIVE AND RELATED TECHNOLOGY 142 3.00 Units
AUTOMOTIVE THEORY AND REPAIR VI (CSU) 3.00 Units
Instruction is offered on fuel injection, automatic transmissions & heating, ventilation & air conditioning systems, with emphasis on diagnosis and repair procedures. Shop practice is offered on most areas of automotive repairs: engine, transmissions, drivability, brakes, suspension, steering, automotive accessories, and various other repairs.
7366 7:00am - 7:50am MTWThF OH/F124
& lab 7:50am - 12:00pm MTWThF OH/F104
(6 Week Class - Starts 11/10/2014, Ends 12/18/2014)

AUTOMOTIVE AND RELATED TECHNOLOGY 941 4.00 Units
COOPERATIVE EDUCATION - AUTOMOTIVE AND RELATED TECHNOLOGY 3.00 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.
9024 4:25 hrs/wk TBA CY/ D236

AUTOMOTIVE COLLISION REPAIR 3.00 Units
Chair: Jess Guerra,
Oak Hall - OH/F-106A, (213) 763-3901

AUTOMOTIVE COLLISION REPAIR 112 9.00 Units
AUTO BODY CONSTRUCTION, REPAIR AND WELDING FUNDAMENTALS 3.00 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.
7300 7:00am - 7:50am MTWTh OH/F132
& lab 7:50am - 12:20pm MTWTh OH/F110

AUTOMOTIVE COLLISION REPAIR 132 9.00 Units
UNITIZED BODY PANEL, SECTION, & FRAME; REPLACEMENT & ALIGNMENT 3.00 Units
This course introduces students to MIG welding, aluminum welding, and resistance welding. Students will learn to repair and replace body panels on unibody and full-frame vehicles. Repairing and replacing structural panels made of High Strength Steel (HSS), Advanced High Strength Steel (AHSS), and Ultra High Strength Steel (UHSS) are incorporated into this course. Students will learn aluminum welding techniques and panel bonding for both aluminum and steels. Students will understand the proper techniques of body/structural sectioning and anti-corrosion protection. Students will repair vehicles to industry standards.
7307 12:30pm - 1:20pm MTWTh OH/F132
& lab 1:20pm - 5:50pm MTWTh OH/F110

AUTOMOTIVE COLLISION REPAIR 226 3.00 Units
AUTOMOTIVE COLLISION REPAIR I 3.00 Units
This course introduces students to MIG welding, aluminum welding, and repair techniques used on unibody and full-frame vehicles. Repairing and replacing structural panels made of High Strength Steel (HSS), Advanced High Strength Steel (AHSS), and Ultra High Strength Steel (UHSS) are incorporated into this course. Students will learn aluminum welding techniques and panel bonding for both aluminum and steels. Students will understand the proper techniques of body/structural sectioning and anti-corrosion protection. Students will repair vehicles to industry standards.
4870 6:00pm - 6:30pm TTh OH/F132
& lab 6:30pm - 9:45pm TTh OH/F110

AUTOMOTIVE COLLISION REPAIR 227 3.00 Units
AUTO BODY AND FENDER II 3.00 Units
This course offers advanced training in refinishing, color mixing and matching of OEM (Original Equipment manufacturer) color codes. Proper paint gun operation and use of air pressure and spray patterns are emphasized, as well as VOC (Volatile Organic Compounds) log calculation systems. Students will learn to repair/repaint as required to I-CAR and industry standards. This course will emphasize on the STAR Training Program whose goal is to train technicians to reduce material consumption costs and pollution through increased spray efficiency.
4871 7:30am - 8:35am SAT OH/F132
& lab 8:35am - 3:15pm SAT OH/F110

BAKING, PROFESSIONAL 6.00 Units
Chair: Steven Kasmar,
Sage Hall - SA/H-118, (213) 763-7332

BAKING, PROFESSIONAL 112 4.00 Units
BAKING PROCESSES AND THEORY OF INGREDIENTS 3.00 Units
Corequisite: Culinary Arts 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.
7349 10:00am - 3:45pm TTh SA/H315
& lab 11:00am - 3:30pm TTh SA/H315
(8 Week Class - Starts 10/28/2014, Ends 12/18/2014)

BAKING, PROFESSIONAL 121 6.00 Units
BEGINNING YEAST BREADS AND QUICKBREADS 2.00 Units
Prerequisite: Professional Baking 112 and Culinary Arts 112.
Class introduces students to volume lean & rich yeast bread and quick bread production with an emphasis on flour usage, chemical and natural leavening agents, as well as fat and sugar ingredient identification. Speed, accuracy, and increased productivity are stressed along with preparation of a variety of bread products up to industry standards.
7542 6:45am - 10:25am MTWTh SA/H315
& 10:25am - 12:25pm MTWTh SA/H301
(8 Week Class - Starts 9/2/2014, Ends 10/24/2014)

BAKING, PROFESSIONAL 122 6.00 Units
ARTESIAN BREADS, SPECIALTY BREADS 2.00 Units
Recognize formulas and demonstrate the ability to alter formulas in yeast, rolled-in, and quick bread formulas central to this class. View bread baking from an artisanal™s prospective. Explore the fundamentals of baking science: How a formula works including changes of yields and altering percentages of ingredients in formulas to produce desired results are stressed. Work on increasing productivity, speed and accuracy is continued in this class.
7543 6:45am - 10:25am MTWTh SA/H315
& 10:25am - 12:35pm MTWTh SA/H301
(8 Week Class - Starts 10/27/2014, Ends 12/18/2014)

BAKING, PROFESSIONAL 131 6.00 Units
PLATED RESTAURANT STYLE DESSERTS 2.00 Units
Prerequisite: Professional Baking 112; Professional Baking 121; Professional Baking 122; Culinary Arts 112;
The course covers a wide range of baking techniques and topics with concentration on the composition of restaurant style plated desserts made up of a number of components.
7544 7:30am - 9:30am MTWTh SA/H334
& lab 9:30am - 1:20pm MTWTh SA/H315
(8 Week Class - Starts 9/2/2014, Ends 10/24/2014)

BAKING, PROFESSIONAL 132 6.00 Units
MULTI-COMPONENT DESSERTS AND PASTRIES 2.00 Units
Prerequisite: Professional Baking 112; Professional Baking 121; Professional Baking 122; Professional Baking 131 and Culinary Arts 112;
Students will discuss and demonstrate contemporary style multi-component plated restaurant style desserts. Topics include traditional composed desserts, modern menu fusion, international/ethnic and classical dessert combinations.
7545 7:30am - 9:40am MTWTh SA/H334
& lab 9:40am - 1:50pm MTWTh SA/H315
(8 Week Class - Starts 10/27/2014, Ends 12/18/2014)
### FALL 2014 Class Schedule

**BAKING, PROFESSIONAL 141** 6.00 Units

ADVANCED BAKING CENTERPIECE AND DECORATING TECHNIQUES

Prerequisite: Professional Baking 112; Professional Baking 121; Professional Baking 122; Professional Baking 131; Professional Baking 132; Culinary Arts 111; Culinary Arts 112;

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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30am - 10:25am</td>
<td>MTWTh</td>
<td>SA/H315</td>
</tr>
<tr>
<td>10:25am - 12:35pm</td>
<td>MTWTh</td>
<td>SA/H330</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 10/27/2014, Ends 12/18/2014)

### BASIC SKILLS

Chair: Christina Anketell, Mariposa Hall, MA-109e, (213) 783-3741

**BASIC SKILLS 022CE** 0.00 Unit

**BASIC ENGLISH SKILLS (NDA) (RPT 9)**

Basic listening, reading, speaking, and writing skills for students with minimum English language skills.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30pm - 7:10pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00pm - 8:20pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00pm - 9:40am</td>
<td>MTWTh</td>
<td>CY/ D200</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm - 3:55pm</td>
<td>MTWTh</td>
<td>OH/ F235</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

### BASIC MATH SKILLS (NDA) (RPT 9)

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing mathematical problems.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:40pm - 7:20pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

### BASIC SKILLS 023CE 0.00 Unit

**COLLEGE AND SCHOLASTIC ASSESSMENT PREPARATION (NDA) (RPT 9)**

This course provides students with study, computational, writing, and critical thinking skills to prepare for the college assessment test.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00pm - 7:00pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00pm - 8:15pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00pm - 7:00pm</td>
<td>MTWTh</td>
<td>H/ F211</td>
</tr>
<tr>
<td>7:00pm - 8:15pm</td>
<td>MTWTh</td>
<td>H/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30pm - 7:40pm</td>
<td>MTWTh</td>
<td>MA 109N</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 10/27/2014, Ends 12/20/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30pm - 7:40pm</td>
<td>MTWTh</td>
<td>MA 109C</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 10/27/2014, Ends 12/20/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am - 10:15am</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am - 10:15am</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30am - 12:45pm</td>
<td>MTWTh</td>
<td>OH/ F211</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
Trends. This course provides students with the basic research and including essential facts, key institutions, history, career pathways and targeted industry and

BASIC SKILLS 073CE 0.00 Unit
FUNDAMENTAL FOR WORKPLACE SUCCESS - TEAMWORK (NDA)
This course will prepare students to successfully collaborate and work effectively with their colleagues and co-workers in diverse settings by strengthening their employability, interpersonal and leadership skills. Students will gain insights about themselves and learn new tools and strategies that optimize their strengths and help them increase their effectiveness and efficiency at work.

8737 4:00pm - 6:15pm F OH/ F228
(13 Week Class - Starts 10/27/2014, Ends 2/15/2015)

8753 4:00pm - 6:15pm TTh OH/ F228
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

8754 4:00pm - 6:15pm TTh OH/ F228
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

BIOLOGY
Chair: Miguel Moreno,
Cedar Hall - CH/K-405, (213) 763-7322

BIOLOGY 003 4.00 Units
INTRODUCTION TO BIOLOGY (UC:CSU)
This is an introductory course dealing with the fundamental properties of living things. The structure and physiology of plants and animals, with emphasis on humans, are covered. Relationships between biological communities, genetics, and evolution are stressed.

1610 8:00am - 11:10am M CH/ K422
& lab 8:00am - 11:10am W CH/ K422

1611 12:00pm - 3:10pm T CH/ K408
& lab 12:00pm - 3:10pm Th CH/ K408

1612 8:00am - 11:10am T TBA 1
& lab 8:00am - 11:10am Th TBA 1

1613 8:00am - 11:10am SAT CH/ K468
& lab 12:00pm - 3:10pm SAT CH/ K468

1614 6:30pm - 9:40pm M CH/ K422
& lab 6:30pm - 9:40pm W CH/ K422

1615 3:10pm - 6:20pm T CH/ K420
& lab 3:10pm - 6:20pm Th CH/ K420

1616 8:00am - 11:10am SAT CH/ K406
& lab 12:00pm - 3:10pm SAT CH/ K424

1617 7:30am - 10:40am M CH/ K468
& lab 7:30am - 10:40am W CH/ K468

4050 6:00pm - 9:10pm M CH/ K468
& lab 6:00pm - 9:10pm W CH/ K468

4051 6:00pm - 9:10pm T CH/ K408
& lab 6:00pm - 9:10pm Th CH/ K408

4052 6:00pm - 9:10pm M CH/ K420
& lab 6:00pm - 9:10pm W CH/ K420

BIOLOGY 005
INTRODUCTION TO HUMAN BIOLOGY (UC:CSU)
The course includes basic biological principles as they apply to humans. The course will provide a foundation for advanced courses in Human Anatomy, Physiology, and Microbiology. Topics include chemical principles, the cell, heredity, human anatomy and physiology, microbiology, pathology, ecology, and bioethics.

1604 8:00am - 11:10am SAT TBA 1
& lab 12:00pm - 3:10pm SAT TBA 1
CARPENTRY AND CONSTRUCTION FOR SOLAR INSTALLATION

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.

1640 10:10am - 1:20pm  T  CH/ K422
& lab 10:10am - 1:20pm  Th  CH/ K422
1641 8:00am - 11:10am  F  CH/ K408
& lab 12:00pm - 3:10pm  F  CH/ K408

BIOLOGY 006 5.00 Units
GENERAL BIOLOGY I (UC:CSU)
Prerequisite: Chemistry 51 or higher
This is the first of a sequence of two General Biology courses designed for life science and pre-med majors. It deals with basic cellular processes within and between cells, metabolism, genetics and recombinant DNA technology.

1621 9:00am - 10:30am  MW  AH/T E210
& lab 10:35am - 12:10pm  MW  CH/ K468
& lab 9:00am - 12:10pm  F  CH/ K468

BUILDING CONSTRUCTION TECHNIQUES
Chair: William Elarton,
Sequoia Hall - SQ/B-122, (213) 763-3701

BUILDING CONSTRUCTION TECHNIQUES 007 3.00 Units
WEATHERIZATION - PRACTICAL ENERGY EFFICIENCY TECHNIQUES
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 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.

8622 8:00am - 11:10am  SAT  SQ/ B105

BUILDING CONSTRUCTION TECHNIQUES 008 1.00 Unit
WEATHERIZATION-ENERGY EFFICIENCY PRACTICES
This course provides laboratory exercises to build skills necessary for the effective application of energy techniques that can be used to weatherize homes and other structures. Course is suitable for application by a professional weatherization contractor training entry level workers or a homeowner looking to improve their own home. Efficiency practices 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.

8623 lab 11:30am - 3:00pm  SAT  SQ/ B105

BUILDING CONSTRUCTION TECHNIQUES 010 3.00 Units
ENERGY AND UTILITY INDUSTRY CAREERS (RPT 3)
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.

4613 6:00pm - 9:10pm  Th  SQ/ B351

BUILDING CONSTRUCTION TECHNIQUES 014 4.00 Units
CARPENTRY AND CONSTRUCTION FOR SOLAR INSTALLATION
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.

4614 6:00pm - 9:10pm  T  SQ/ B136
& lab 6:00pm - 9:10pm  Th  SQ/ B136

BUILDING CONSTRUCTION TECHNIQUES 101 3.00 Units
CONTRACT'S LICENSE LAW (CSU)
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.

4840 6:00pm - 9:10pm  F  SQ/ B351

BUILDING CONSTRUCTION TECHNIQUES 102 2.00 Units
O.S.H.A. BASED SAFETY STANDARDS: CONSTRUCTION & INDUSTRY (RPT 3)
(Same as Electrical Construction Maintenance 100).
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.

4615 6:00pm - 9:10pm  W  OH/ F209
8331 2:30pm - 4:40pm  Th  OH/ F208

BUSINESS
Chair: Paulette Bailey,
Cedar Hall - CH/K-225, (213) 763-7269

BUSINESS 001 3.00 Units
INTRODUCTION TO BUSINESS (UC:CSU)
Special emphasis is placed on the meaning and purpose of business in our society, the historical development of business, the general economic setting for business today, and the following business areas: forms of business organization, manufacturing, marketing, human relations, financing, accounting, budgeting, reports, government-based relations and the social responsibilities of people in business.

0130 8:35am - 10:00am  TTh  CH/ K321
0131 12:00pm - 1:25pm  MW  CH/ K262
3004 6:00pm - 9:10pm  M  CH/ K208

BUSINESS 005 3.00 Units
BUSINESS LAW I (UC:CSU)
Introductory course in civil law emphasizing laws relating to contracts, agency, personal property, business organizations, partnerships, corporations, security transactions, and torts. Students also explore logical reasoning and the application of rules of law to everyday business affairs.

0132 1:30pm - 2:55pm  MW  CH/ K324
0133 9:45am - 11:10am  TTh  CH/ K262
3005 6:00pm - 9:10pm  W  CH/ K262

BUSINESS 006 3.00 Units
BUSINESS LAW II (UC:CSU)
Introductory course in civil law emphasizing commercial paper, secured transactions, bankruptcy, real and personal property, and trusts and estates.

3012 6:00pm - 9:10pm  W  CH/ K210

BUSINESS 032 3.00 Units
BUSINESS COMMUNICATIONS (CSU)
The course emphasizes the concepts of successful written and oral communication skills in business in order to write effective business communications including letters, electronic communications, and short reports. This course also helps students develop the ability to create and present oral presentations.

0134 10:15am - 11:00am  MW  CH/ K210
& lab 11:45am - 12:45pm  MW  CH/ K210
0138 1:00pm - 1:45pm  MW  CH/ K208
& 2:00pm - 3:15pm  MW  CH/ K208
CARPENTRY 114  4.00 Units
HAND AND POWER TOOL APPLICATION
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.
8104  7:00am - 7:20am  MWF  SQ/ B136
 & lab  7:20am - 10:30am  SQ/ B104

CARPENTRY 115  3.00 Units
BASIC BLUEPRINT READING AND CORE CONSTRUCTION SKILLS
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 dimensions.
8105  7:00am - 7:20am  TTh  SQ/ B136
Team lab  7:20am - 10:30am  TTh  SQ/ B104

CARPENTRY 117  2.00 Units
CONSTRUCTION MATERIALS
Corequisite: Carpentry 114;
This course focuses on building materials such as concrete, steel and a
variety of woods used for exterior and interior carpentry finish; insulation,
flushing, 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.
8002  7:45pm - 2:00pm  MTh/W  SQ/ B105
 & lab  2:00pm - 5:00pm  MTh/W  SQ/ B105
(8 Week Class - Starts 10/27/2014, Ends 12/20/2014)
8106  10:40am - 11:10am  MWF  SQ/ B136
 & lab  11:10am - 12:10pm  MWF  SQ/ B104

CARPENTRY 123  6.00 Units
BASIC HOUSE CONSTRUCTION
Prerequisite: Carpentry 114
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.
8111  7:00am - 1:00pm  TTh  SQ/ B136
 & lab  1:00pm - 5:00pm  TTh  SQ/ B104
8115  7:00am - 7:30am  MWF  SQ/ B105
 & lab  7:30am - 10:00am  TTh  SQ/ B104

CARPENTRY 125  3.00 Units
BLUEPRINT READING AND ESTIMATING 1
Prerequisite: Carpentry 115
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.
8116  7:00am - 7:30am  MWF  SQ/ B105
 & lab  7:30am - 10:00am  TTh  SQ/ B104

CARPENTRY 129  2.00 Units
BASIC RESIDENTIAL ESTIMATING
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 sheets. They will gain experience through a complete materials
estimate of a structure.
8109  7:00am - 7:30am  MWF  SQ/ B104

CARPENTRY 130  3.00 Units
CALCULATIONS AND MEASUREMENT FOR WOODWORKING
Students II
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
8109  7:00am - 7:30am  MWF  SQ/ B104
### FALL 2014 Class Schedule

####_requirements and material quantities, as well as perform length and size calculations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Meeting Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8110</td>
<td>10:50am - 12:20pm TTh</td>
<td>SQ/ B102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 132</td>
<td>APPLIED BLUEPRINT READING</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8118</td>
<td>8:30am - 9:05am &amp; lab</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>9:05am - 12:15pm</td>
<td>SQ/ B104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 133</td>
<td>ADVANCED RESIDENTIAL ESTIMATING</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8119</td>
<td>7:00am - 8:25am TTh</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 134</td>
<td>ADVANCED RESIDENTIAL CONSTRUCTION</td>
<td>4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8120</td>
<td>7:00am - 8:25am Team lab</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:25am - 10:50am</td>
<td>SQ/ B104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 135</td>
<td>CONCRETE CONSTRUCTION</td>
<td>2.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8121</td>
<td>8:05am - 11:15am F</td>
<td>SQ/ B104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:05am - 11:15am</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 144</td>
<td>RESIDENTIAL EXTERIOR FINISH</td>
<td>4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8131</td>
<td>7:00am - 8:05am M</td>
<td>SQ/ B102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:15am - 11:45am</td>
<td>SQ/ B104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 145</td>
<td>RESIDENTIAL INTERIOR FINISH</td>
<td>5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8132</td>
<td>7:00am - 8:05am TTh</td>
<td>SQ/ B102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:05am - 12:55pm</td>
<td>SQ/ B102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 146</td>
<td>COMPUTER ASSISTED ESTIMATING 1</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4706</td>
<td>6:00pm - 6:40pm MW &amp; lab</td>
<td>CY/ D330</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or lab</td>
<td>4:40pm - 9:10pm</td>
<td>CY/ D330</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 170</td>
<td>INTRODUCTION TO CNC WOODWORKING MACHINING AND PROGRAMMING</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8119</td>
<td>7:00am - 8:25am TTh</td>
<td>SQ/ B120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:05am - 11:15am</td>
<td>SQ/ B120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 241</td>
<td>BLUEPRINT READING AND ESTIMATING</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4702</td>
<td>6:00pm - 9:10pm M</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 251</td>
<td>BUILDING CODES 1: INTERNATIONAL RESIDENTIAL CODE (IRC)</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4703</td>
<td>6:00pm - 9:10pm M</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRERNTY 261</td>
<td>CHEMICAL TECHNOLOGY</td>
<td>5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4619</td>
<td>6:00pm - 9:10pm T</td>
<td>SQ/ B105</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### CHEMICAL TECHNOLOGY

Chair: Miguel Moreno, Cedar Hall - CH/K-405, (213) 763-7322

#### CHEMICAL TECHNOLOGY 111 | APPLIED CHEMISTRY I (CSU)

This course is dedicated to the study of principles and concepts of chemistry and laboratory techniques used in chemistry. Introduced in this course are concepts involving the structure of matter, the mole concept, properties of solutions, chemical reactions, test for purity, introduction to physical methods of analysis involving the use of separation and instrumental methods.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Meeting Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1560</td>
<td>10:10am - 11:35am M</td>
<td>MH 309</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:00am - 11:10am</td>
<td>CH/ K464</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>10:05am - 11:35am T</td>
<td>AH/T E107</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am - 10:05am T</td>
<td>CH/ K406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1562</td>
<td>10:10am - 11:35am M</td>
<td>MH 309</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am - 10:05am T</td>
<td>CH/ K406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>9:00am - 11:10am T</td>
<td>CH/ K464</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>10:05am - 11:35am T</td>
<td>AH/T E107</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4081</td>
<td>5:30pm - 8:45:00PM M &amp; lab</td>
<td>CH/ K424</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>8:10pm - 10:15:00PM T</td>
<td>CH/ K424</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>5:00pm - 10:15:00PM T</td>
<td>CH/ K424</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### FALL 2014 Class Schedule

**CHEMICAL TECHNOLOGY 113** 2.00 Units  
**APPLIED CHEMISTRY MATHEMATICS I**  
This course is about application of basic mathematical operations to problem-solving strategy in Chemical Technology.  
1651 7:00am - 8:10am W CH/K464  
& 10:20am - 11:20am W CH/K464

**CHEMICAL TECHNOLOGY 132** 5.00 Units  
**QUANTITATIVE AND INSTRUMENTAL ANALYSIS I (CSU)**  
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.  
1656 7:00am - 10:10am W CH/K464  
& lab 10:10am - 11:45am W CH/K464  
& lab 7:00am - 11:45am Th CH/K464

**CHEMICAL TECHNOLOGY 133** 4.00 Units  
**ORGANIC CHEMISTRY I (CSU)**  
This course includes systematic study of hydrocarbons including nomenclature, physical and chemical properties, occurrences, synthesis, and reactions of alkanes, alkenes, and alkynes. Laboratory studies include distillations, liquid-liquid extractions, and chromatographic techniques and IR spectroscopy.  
1657 6:45am - 8:35am M CH/K466  
& lab 8:35am - 11:40am M CH/K466  
& lab 7:00am - 10:10am T CH/K466

**CHEMICAL TECHNOLOGY 168** 2.00 Units  
**CHEMICAL QUALITY CONTROL I**  
This course provides Introduction to quantitative and qualitative analysis of common anions and cations in aqueous solution.  
1662 lab 10:20am - 11:45am T CH/K464  
& lab 7:00am - 11:35am F CH/K466

**CHEMISTRY**  
Chair: Miguel Moreno.  
Cedar Hall - CH/K-405, (213) 763-7322

**CHEMISTRY 051** 5.00 Units  
**FUNDAMENTALS OF CHEMISTRY I (UC:CSU)**  
Prerequisite: Mathematics 114 or Mathematics 115;  
This course with laboratory emphasizes the principles of inorganic chemistry and introduces elementary organic chemistry. It is planned primarily for health science majors, as a preparatory course for higher-level chemistry courses, and for non-science majors requiring a one-semester course with laboratory. High school students may obtain both: high school and college credit for this course. UC/CSU systems limit Chem 51/Chem 65 credit to one course.  
1670 8:45am - 11:55am M CH/K258  
& 12:00pm - 1:05pm M CH/K464  
& lab 8:35am - 11:45am W CH/K464  
Enrollment Restriction for Bio-Tech Cohort.  
1671 8:00am - 12:20pm T AH/T E120  
& 8:00am - 9:05am Th AH/T E120  
& lab 9:05am - 11:20am Th CH/K464  
1672 8:00am - 11:20am SAT CH/K464  
& lab 12:00pm - 4:20pm SAT CH/K322  
1673 10:10am - 2:25pm F CH/K322  
& lab 3:00pm - 6:10pm F CH/K464  
4074 4:25pm - 6:30pm TTH CH/K252  
& lab 6:40pm - 9:50pm T CH/K464  
4075 4:15pm - 6:20pm MW CH/K222  
& lab 6:30pm - 9:40pm M CH/K464

**CHEMISTRY 070** 4.00 Units  
**INTRODUCTORY ORGANIC AND BIOCHEMISTRY (UC:CSU)**  
Prerequisite: Chemistry 51 or Chemistry 65 or Chemistry 101.  
This course studies the structure, physical properties and nomenclature of organic compounds and biomolecules. Simple chemical reactions are introduced. Students use physical and chemical properties of compounds to characterize them in the laboratory. It is strongly recommended to take this course before taking chemistry 211. This course provides credit towards the Associate of Sciences degree in Chemistry.  
1674 11:00am - 2:20pm SAT CH/K406  
& lab 2:30pm - 5:40pm SAT CH/K464

**CHEMISTRY 101** 5.00 Units  
**GENERAL CHEMISTRY I (UC:CSU)**  
Prerequisite: Mathematics 125;  
This course presents the principles of chemistry, including modern atomic structure, chemical bonding, stoichiometry, gases, solids, liquids, descriptive inorganic chemistry, and introduces equilibrium and electrochemistry. The laboratory emphasizes the quantitative aspects of chemistry an instrumentation. 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.  
1680 10:10am - 1:10pm TH CH/K406  
& lab 11:50am - 3:00pm TH CH/K464  
1681 9:10am - 10:50am MW AH/T E120  
& lab 11:50am - 3:00pm MW CH/K464  
1682 10:10am - 11:45am TTH CH/K321  
& lab 11:50am - 3:00pm TTH CH/K464  
1683 10:10am - 11:45am MW AH/T E415  
& lab 11:50am - 3:00pm MW CH/K466  
4076 4:30pm - 6:05pm TTH MH 309  
& lab 6:10pm - 9:20pm TTH CH/K466

**CHEMISTRY 102** 5.00 Units  
**GENERAL CHEMISTRY II (UC:CSU)**  
Prerequisite: Chemistry 101;  
This course is a continuation of General Chemistry I. It includes detailed study of chemical equilibrium, kinetics, electrochemistry, nuclear and coordination chemistries. Quantitative and qualitative analysis and inorganic preparations are part of the laboratory. 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.  
1684 1:10pm - 2:45pm TTh CH/K324  
& lab 3:00pm - 6:00pm TTh CH/K466  
1685 1:10pm - 2:45pm MW CH/K406  
& lab 3:00pm - 6:10pm MW CH/K464  
4077 4:30pm - 6:05pm MW AH/T E415  
& lab 6:10pm - 9:20pm MW CH/K466

**CHEMISTRY 211** 5.00 Units  
**ORGANIC CHEMISTRY FOR SCIENCE MAJORS I (UC:CSU)**  
Prerequisite: Chemistry 102.  
Structure, dynamics, equilibrium and nomenclature of organic compounds including conformational analysis, potential energy plots, hybridization, reaction mechanisms and molecular modeling. Students employ modern synthetic and chromatographic techniques. Guest speakers enhance the topics covered in class. 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.  
1690 1:10pm - 2:50pm TTh AH/T E120  
& lab 3:00pm - 6:10pm TTh CH/K464

Los Angeles Trade-Technical College  
Schedule of Classes  
Updated: May 6, 2014
FALL 2014 Class Schedule

CHEMISTRY 212 5.00 Units
ORGANIC CHEMISTRY FOR SCIENCE MAJORS II (UC:CSU)
Prerequisite: Chemistry 211; Continuing studies of organic molecules started in chemistry 211 with emphasis on carbonyl containing compounds, macromolecules and naturally occurring nitrogen and oxygen-containing compounds. Non-covalent interactions and catalyst. A mechanistic approach to reactions and a focus on multi-step synthesis is emphasized throughout the course. 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.
1691 1:10pm - 2:45pm MW CH/K262
& lab 3:00pm - 6:10pm MW CH/K464

CHILD DEVELOPMENT
Chair: Alicia Rodriguez-Estrada, Aspen Hall - AH/TE-516, (213) 763-3938

CHILD DEVELOPMENT 001 3.00 Units
CHILD GROWTH AND DEVELOPMENT (UC:CSU)
Advisory: English 28
This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.
1200 8:35am - 10:00am MW CH/K262
1201 10:10am - 11:35am MW AH/T E401
1202 10:10am - 11:35am TTh CH/K262
1203 11:45am - 1:10pm TTh CH/K262
1204 11:45am - 2:55pm T AH/T E401
3700 6:00pm - 9:10pm W AH/T E312
3701 6:00pm - 9:10pm Th AH/T E213
7931 3:25 hrs/wk TBA ON LINE
Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

CHILD DEVELOPMENT 002 3.00 Units
EARLY CHILDHOOD: PRINCIPLES AND PRACTICES (CSU)
TB clearance required. Prerequisite: Child Development 1. An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity.
1205 8:35am - 10:00am MW AH/T E401
1206 8:35am - 10:00am TTh CH/K262
3702 6:00pm - 9:10pm MW AH/T E401

CHILD DEVELOPMENT 007 3.00 Units
INTRODUCTION TO CURRICULUM IN EARLY CHILDHOOD EDUCATION (CSU)
Prerequisite: Child Development 1; Child Development 2. This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher’s role in supporting development and engagement for all young children. This course provides strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including 1) academic content areas, 2) play, art, and creativity, and 3) development of social-emotional, communication, and cognitive skills.
1214 11:45am - 2:55pm CH/K262

CHILD DEVELOPMENT 010 3.00 Units
HEALTH, SAFETY AND NUTRITION (CSU)
Advisory: English 21.
Students are required to participate in and pass the American Red Cross Infant/Child CPR and First Aid Course. This course introduces 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 both children and staff will be identified along with the importance of collaboration with families and health professionals. This course also focuses on integrating the concepts into everyday planning and program development for all children. Students are required to participate in and pass the American Red Cross Infant/Child CPR and First Aid course.
1216 10:10am - 11:35am TTh CH/K222
1917 10:10am - 11:35am MW OH/F223
3721 8:00am - 9:10pm W AH/T E312

CHILD DEVELOPMENT 011 3.00 Units
CHILD, FAMILY AND COMMUNITY (CSU)
Advisory: English 21.
An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.
1205 10:10am - 11:35am MW AH/T E401
1206 8:35am - 10:00am TTh AH/T E401
3725 6:00pm - 9:10pm M AH/T E301

CHILD DEVELOPMENT 022 4.00 Units
PRACTICUM IN CHILD DEVELOPMENT I (CSU)
Prerequisite: Child Development 1, and Child Development 2 and Child Development 3 and Child Development 7; Child Development 11. Students are required to complete 90 hours at an approved field site. Must be available between 8:00 a.m. and noon. In this course the student will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.
1221 1:30pm - 3:35pm T AH/T E401
& lab 6:45 hrs/wk TBA AH/T E401
3727 6:00pm - 8:05pm W CH/K258
& lab 6:45 hrs/wk TBACH/K258

CHILD DEVELOPMENT 023 4.00 Units
PRACTICUM IN CHILD DEVELOPMENT II (CSU)
Prerequisite: Child Development 22. Students are required to complete 90 hours at an approved field site. Must be available between 8:00 a.m. and noon. 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. Educational philosophy statement, a resume and a professional portfolio are created. State law requires a TB test (Mantoux Test) or chest x-ray. In addition to the seminar class, students must complete 90 hours at an APPROVED field site.
3728 6:00pm - 8:05pm W AH/T E401
& lab 6:45 hrs/wk TBA AH/T E401

L a s A n g e l e s T r a d e - T e c h n i c a l C o l l e g e  S c h e d u l e o f C l a s s e s  U p d a t e d : M a y 6 , 2 0 1 4

12 | P a g e
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHILD DEVELOPMENT 030</td>
<td>INFANT AND TODDLER STUDIES I (CSU)</td>
<td>3.00</td>
<td>8:35am - 10:00am</td>
<td>MW</td>
<td>CH/K222</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT 034</td>
<td>OBSERVING AND RECORDING CHILDREN'S BEHAVIOR (CSU)</td>
<td>3.00</td>
<td>10:10am - 11:35am</td>
<td>TTh</td>
<td>AH/T E401</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT 038</td>
<td>ADMINISTRATION &amp; SUPERVISION OF EARLY CHILDHOOD PROGRAMS I (CSU)</td>
<td>3.00</td>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>CH/K222</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT 042</td>
<td>TEACHING IN A DIVERSE SOCIETY (CSU)</td>
<td>3.00</td>
<td>11:45am - 1:10pm</td>
<td>MW</td>
<td>AH/T E401</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT 045</td>
<td>PROGRAMS FOR CHILDREN WITH SPECIAL NEEDS (CSU)</td>
<td>3.00</td>
<td>8:35am - 10:00am</td>
<td>TTh</td>
<td>CH/K222</td>
</tr>
<tr>
<td>CHILD DEVELOPMENT 047</td>
<td>SCHOOL AGE PROGRAMS II (CSU)</td>
<td>3.00</td>
<td>7:00am - 8:25am</td>
<td>TTh</td>
<td>AH/T E206</td>
</tr>
<tr>
<td>SCHOOL DEVELOPMENT 057</td>
<td>CHILDREN'S ETHNIC IDENTITY DEVELOPMENT AND AWARENESS (CSU)</td>
<td>3.00</td>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>CH/K222</td>
</tr>
<tr>
<td>COMMUNICATION STUDIES 101</td>
<td>PUBLIC SPEAKING (UC:CSU)</td>
<td>3.00</td>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>AH/T E201</td>
</tr>
</tbody>
</table>

**Notes:**
- **Prerequisites:** Child Development 1
- **Corequisites:** Child Development 11
- **On-Campus:** On-campus classes are held on the college campus.
- **Off-Campus:** Off-campus classes are held at various locations, including community centers and schools.
- **Online:** Online classes can be accessed remotely.

**Schedule of Classes Updated: May 6, 2014**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3856</td>
<td>M</td>
<td>6:00pm - 9:10pm</td>
<td>AH/T E201</td>
<td></td>
</tr>
<tr>
<td>3861</td>
<td>W</td>
<td>6:00pm - 9:10pm</td>
<td>AH/T E201</td>
<td></td>
</tr>
<tr>
<td>3862</td>
<td>Th</td>
<td>6:00pm - 9:10pm</td>
<td>AH/T E201</td>
<td></td>
</tr>
<tr>
<td>3863</td>
<td>T</td>
<td>6:00pm - 9:10pm</td>
<td>AH/T E201</td>
<td></td>
</tr>
<tr>
<td>3864</td>
<td>F</td>
<td>4:45pm - 7:55pm</td>
<td>AH/T E201</td>
<td></td>
</tr>
<tr>
<td>3865</td>
<td>TTh</td>
<td>6:00pm - 8:15pm</td>
<td>AH/T E206</td>
<td></td>
</tr>
</tbody>
</table>

(12 Week Class - Starts 9/30/2014, Ends 12/21/2014)

**COMMUNITY PLANNING/ECONOMIC DEVELOPMENT**
Chair: John McDowell, Mariposa Hall - MA-005, (213) 763-7129

**COMMUNITY PLANNING/ECONOMIC DEVELOPMENT 001** 3.00 Units
INTRODUCTION TO COMMUNITY ECONOMIC DEVELOPMENT (CSU)
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, a housing plan and a workforce development plan. The course is also offered as three modules that run concurrently with the full course.

3270 6:00pm - 9:10pm M TBA 1

**COMMUNITY PLANNING/ECONOMIC DEVELOPMENT 006** 3.00 Units
MANAGING NON-PROFIT AND PUBLIC ORGANIZATIONS (CSU)
This course deals with the organizational opportunities and challenges faced by directors and managers of non-profit and public service organizations. Students will gain an understanding of the roles and accountabilities of non-profit directors and managers and learn to work effectively within such organizations by recognizing and applying knowledge about different governance structures and the functional domains common to most public benefit organizations including strategic and operational planning, fund development and community engagement.

3271 6:00pm - 9:10pm W TBA 1

**COMMUNITY PLANNING/ECONOMIC DEVELOPMENT 035** 3.00 Units
HEALTH LEADERSHIP AND COMMUNITY DEVELOPMENT
This course provides students with a basic understanding of the health disparities and conditions affecting low-income, inner-city communities and the leadership skills required to improve them.

3272 6:00pm - 9:10pm Th TBA 1

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 002** 3.00 Units
COMPUTER KEYBOARDING AND DOCUMENT APPLICATIONS II (CSU)
Increase computer keyboarding skills and improve business and legal document development in MS Word.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>0207</td>
<td>M</td>
<td>7:30am - 8:05am</td>
<td>CH/ K320</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>8:05am - 9:35am</td>
<td>CH/ K320</td>
<td></td>
</tr>
<tr>
<td>0218</td>
<td>W</td>
<td>8:00am - 10:00am</td>
<td>CH/ K210</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>10:00am - 1:20pm</td>
<td>CH/ K210</td>
<td></td>
</tr>
<tr>
<td>0211</td>
<td></td>
<td>10:10am - 10:45am</td>
<td>CH/ K210</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>10:45am - 11:40am</td>
<td>CH/ K210</td>
<td></td>
</tr>
<tr>
<td>0210</td>
<td></td>
<td>8:00am - 9:05am</td>
<td>CH/ K320</td>
<td></td>
</tr>
<tr>
<td>0213</td>
<td>TTh</td>
<td>8:00am - 9:05am</td>
<td>CH/ K208</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>9:15am - 10:30am</td>
<td>CH/ K208</td>
<td></td>
</tr>
<tr>
<td>0214</td>
<td>TTh</td>
<td>12:20pm - 1:20pm</td>
<td>CH/ K208</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>1:20pm - 2:50pm</td>
<td>CH/ K208</td>
<td></td>
</tr>
<tr>
<td>3007</td>
<td>TTh</td>
<td>6:00pm - 7:05pm</td>
<td>CH/ K320</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td>7:15pm - 8:50pm</td>
<td>CH/ K320</td>
<td></td>
</tr>
</tbody>
</table>

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 020** 5.00 Units
MEDICAL OFFICE PROCEDURES (CSU)
Student will become proficient in keying medical correspondence, case histories, insurance forms, and reports. Telephone techniques, medical record keeping, filing and internet activities are taught. Students will learn to perform the duties of the administrative medical assistant under realistic conditions requiring them to organize work and set priorities.

0208 8:00am - 1:20pm SAT CH/ K320

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 030** 3.00 Units
OFFICE PROCEDURES (CSU)
The student is instructed in the development of attitudes and personality traits essential to successful office work. Training is received in office organization, duties of office workers, office problems and their solutions, receptionist and telephone techniques, processing written communication, administrative responsibility, and professional growth.

0209 8:00am - 9:00am MW CH/ K210
& lab 9:00am - 10:05am MW CH/ K210

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 033** 2.00 Units
RECORDS MANAGEMENT AND FILING
This course will provide an overview of the field of records management; alphabetic, subject, numeric, and geographic storage and retrieval systems; records management technology; and records control. Class includes records management theory using Microsoft Access.

0211 10:10am - 10:45am MW CH/ K210
& lab 10:45am - 11:40am MW CH/ K210

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 034** 2.00 Units
BUSINESS TERMINOLOGY (CSU)
Advisory: English 68.
The course is designed to develop spelling ability and vocabulary enrichment with application for business use. It develops an understanding of common business and technology terms, as well as emphasizing vocabulary development and expansion.

0210 8:00am - 9:05am TBA CH/ K320

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 044** 3.00 Units
MEDICAL TERMINOLOGY (CSU)
Comprehensive medical vocabulary and usage.

0212 8:00am - 11:10am F CH/ K320

**COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 062** 3.00 Units
MICROCOMPUTER SOFTWARE SURVEY IN THE OFFICE (CSU)
This course is an introduction to office information systems and computer literacy by incorporating group discussions, research, and hands-on experience in a variety of Windows applications. The software used in this course includes word processing, spreadsheets, databases, communications, graphics and operating systems, scheduling, and the Internet.

0213 8:00am - 9:05am TBA CH/ K208
& lab 9:15am - 10:30am TBA CH/ K208
0214 12:20pm - 1:20pm TBA CH/ K208
& lab 1:20pm - 2:50pm TBA CH/ K208
3007 6:00pm - 7:05pm TBA CH/ K320
& lab 7:15pm - 8:50pm TBA CH/ K320
This course provides instructions on Microsoft Word applications using basic and advanced commands to create, format, edit, save, and print documents including letters, tables, reports, and merge documents. The application also utilizes publishing features that include creating newsletters, brochures, fliers, and resumes on the web and through cloud computing.

0215 10:10am - 11:10am MW CH/ K320
& lab 11:20am - 12:40pm MW CH/ K320

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 085 3.00 Units
MICROCOMPUTER OFFICE APPLICATIONS: SPREADSHEET (CSU)
This course prepares students to apply practical business analysis concepts and techniques using the Microsoft Excel spreadsheet. Students learn to create professional and powerful worksheets with emphasis on What-if analysis and business functions; complex problem-solving; auditing, scenario manager; data validation; importing external data; Web queries; creating templates; consolidating workbooks and/or worksheets; goal seeking; and integration features. The business applications include those used by office employees, accountants, management, and marketing personnel.

0216 8:00am - 10:05am SAT CH/ K208
& lab 10:05am - 12:20pm SAT CH/ K208

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 093 2.00 Units
LEGAL DOCUMENTATION PRODUCTION
Advisory: CAOT 84.
This course prepares students to produce legal documents within the law firm setting, including briefs, memos, pleadings and all other legal documents. Recommended for paralegal students and required for legal administrative assistants.

0219 10:15am - 10:45am MW CH/ K208
& lab 10:45am - 11:40am MW CH/ K208

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES 101 1.00 Unit
HANDS-ON INTERNET
This course provides hands-on introduction to the World Wide Web and its components with emphasis on using traditional Internet services, downloading programs, sharing files, using e-mail, extending browser capabilities and increasing Web security.

0217 1:10pm - 1:45pm W CH/ K320
& lab 1:50pm - 4:00pm W CH/ K320
(12 Week Class - Starts 10/1/2014, Ends 12/17/2014)

COMPUTER INFORMATION SYSTEMS
Chair: Eric Chavez,
Cedar Hall - CH/K-325, (213) 763-3782

COMPUTER INFORMATION SYSTEMS 011 3.00 Units
NETWORK SECURITY FUNDAMENTALS (CSU)
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.

3300 8:00am - 10:10am SAT CH/ K302
& lab 10:20am - 12:15pm SAT CH/ K302

COMPUTER INFORMATION SYSTEMS 040 3.00 Units
BEGINNING LEVEL PROGRAMMING/COMPUTER GAMES
Advisory: Computer Information Systems 701.
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.
0480 7:00am - 9:05am MW CH/ K305

COMPUTER INFORMATION SYSTEMS 070 3.00 Units
COMPUTER CONCEPTS (CSU)
Advisory: Mathematics 105 and English 21;
This course provides an overview of computer concepts. It emphasizes the physical components of a computer system, an introduction to operating systems with emphasizes on Windows and DOS, and an introduction to programming concepts. It is intended for students who want to understand the basic concepts of both computer hardware and software.

0151 12:00pm - 2:05pm MW CH/ K305
3310 6:00pm - 8:05pm T CH/ K305
& lab 6:00pm - 8:05pm Th CH/ K305

COMPUTER INFORMATION SYSTEMS 071 3.00 Units
INTRODUCTION TO COMPUTERS AND THEIR USES (UC:CSU)
Advisory: English 21; Mathematics 105;
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 fundamentals of the Windows operating system.

0483 7:00am - 9:05am TTh CH/ K307
0484 12:00pm - 2:05pm MW CH/ K307
3312 6:00pm - 8:05pm M CH/ K307
& lab 6:00pm - 8:05pm W CH/ K307

COMPUTER INFORMATION SYSTEMS 079 3.00 Units
VISUAL BASIC PROGRAMMING (UC:CSU)
Advisory: Computer Information Systems 701;
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.

3314 6:00pm - 8:05pm T CH/ K307
& lab 6:00pm - 8:05pm Th CH/ K307

COMPUTER INFORMATION SYSTEMS 073 3.00 Units
MICROCOMPUTER DATABASE PROGRAMMING (CSU)
Advisory: Computer Information Systems 700 or Computer Information Systems 701;
A complete presentation of database management using Access, including database design, queries, macros, toolbars, VBA and SQL. Also includes advanced work in Excel, use of the Internet in these products.

0486 7:00pm - 9:05pm TTh CH/ K307

COMPUTER INFORMATION SYSTEMS 079 3.00 Units
PROGRAMMING IN C++ (UC:CSU)
Advisory: Computer Information Systems 701;
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.

0487 9:15am - 11:20am TTh CH/ K307
**FALL 2014 Class Schedule**

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSMETOLOGY 035</td>
<td>SKIN THERAPY I (NDA)</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>COSMETOLOGY 036</td>
<td>SKIN THERAPY II (NDA)</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>COMPUTER INFORMATION SYSTEMS 743</td>
<td>OBJECT-ORIENTED PROGRAMMING IN C++ (UC:CSU)</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>COMPUTER INFORMATION SYSTEMS 757</td>
<td>HTML PROGRAMMING AND APPLICATIONS (UC:CSU)</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>COMPUTER INFORMATION SYSTEMS 762</td>
<td>WEB Scripting (CSU)</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>MH 247</td>
<td>JUNIOR SALON I</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>MH 233</td>
<td>JUNIOR SALON II</td>
<td>6.00 Units</td>
</tr>
</tbody>
</table>

**Computer Information Systems 743**

Object-Oriented Programming in C++ (UC:CSU)

Prerequisite: Computer Information Systems 739.

This class provides an overview of computer programming in C++. It emphasizes the syntax and grammar of the language, problem solving methods, development of algorithms, the programming structures of sequence, selection, and loops, use of functions, arrays and strings and how different data types work.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00pm - 2:05pm</td>
<td>TTh</td>
<td>CH/K307</td>
</tr>
</tbody>
</table>

**Computer Information Systems 757**

HTML Programming and Applications (UC:CSU)

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 modify documents for the World Wide Web.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15am - 11:20am</td>
<td>TTh</td>
<td>CH/K305</td>
</tr>
</tbody>
</table>

**Computer Information Systems 762**

Web Scripting (CSU)

Advisory: Computer Information Systems 701 or Computer Information Systems 757.

This class provides an introduction to the use of the JScript 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15am - 10:35am</td>
<td>MW</td>
<td>CH/K307</td>
</tr>
</tbody>
</table>

**COOPERATIVE EDUCATION**

Dean: Joseph Guerrieri, Juniper Hall - JH/St-511, (213) 763-3683

**COOPERATIVE EDUCATION 395**

Work Experience - General I (CSU)

General 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 unit credit for work experience. Work experience requires that the student be employed in a paid or unpaid position and not be related to the students educational goals.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:20 hrs/wk</td>
<td>TBA</td>
<td>CY/D236</td>
</tr>
</tbody>
</table>

**COSMETOLOGY**

Chair: Elton Robinson, MH-241E, (213) 763-7138

**COSMETOLOGY 035**

Skin Therapy I (NDA)

Students will be introduced to disinfection and sanitation procedures, basic facial manipulations, proper cleansing, toning and moisturizing applications, masks and pack techniques and operational procedures for using facial machines.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30pm - 2:00pm</td>
<td>MT</td>
<td>MH 138</td>
</tr>
<tr>
<td>9:00am - 10:00am</td>
<td>SAT</td>
<td>MH 237</td>
</tr>
<tr>
<td>&amp; lab 12:30pm - 2:00pm</td>
<td>MT</td>
<td>MH 253</td>
</tr>
<tr>
<td>&amp; lab 2:30pm - 6:00pm</td>
<td>WTh</td>
<td>MH 138</td>
</tr>
<tr>
<td>&amp; lab 1:30pm - 2:00pm</td>
<td>F</td>
<td>MH 138</td>
</tr>
<tr>
<td>&amp; lab 2:30pm - 6:00pm</td>
<td>F</td>
<td>MH 253</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/2/2014, Ends 10/23/2014)

**COSMETOLOGY 036**

Skin Therapy II (NDA)

Prerequisite: Cosmetology 35.

Students will be introduced to waxing services, makeup applications, desincrustation, iontophoresis, light therapy and high frequency treatments. Skin analysis equipment, facial and body machines, airbrushing machines and hair removal techniques will be employed.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30pm - 2:00pm</td>
<td>MT</td>
<td>MH 138</td>
</tr>
<tr>
<td>2:30pm - 6:00pm</td>
<td>MT</td>
<td>MH 253</td>
</tr>
<tr>
<td>&amp; 12:30pm - 2:00pm</td>
<td>WTh</td>
<td>MH 138</td>
</tr>
<tr>
<td>&amp; lab 2:30pm - 6:00pm</td>
<td>WTh</td>
<td>MH 253</td>
</tr>
<tr>
<td>&amp; lab 12:30pm - 2:00pm</td>
<td>F</td>
<td>MH 138</td>
</tr>
<tr>
<td>&amp; lab 2:30pm - 6:00pm</td>
<td>F</td>
<td>MH 253</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 10/27/2014, Ends 12/18/2014)

**COSMETOLOGY 111**

Freshman Cosmetology

The course covers basic manipulative skills and proper application of shampooing, scalp treatments, finger waving, curl construction, hair design, haircutting, and manicuring. Basic lecture and theory include topics on bacteriology, trichology, decontamination.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30pm - 6:00pm</td>
<td>MTWTh</td>
<td>MH 126</td>
</tr>
<tr>
<td>&amp; lab 6:00pm - 9:30pm</td>
<td>MTWTh</td>
<td>MH 237</td>
</tr>
<tr>
<td>&amp; lab 7:00am - 10:00am</td>
<td>SAT</td>
<td>MH 237</td>
</tr>
<tr>
<td>&amp; lab 10:30am - 2:00pm</td>
<td>SAT</td>
<td>MH 237</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/2/2014, Ends 10/25/2014)

**COSMETOLOGY 112**

JUNIOR SALON I

Prerequisite: Cosmetology 111;

The course covers basic applications of skin care and facial massage manipulations, permanent waving, haircutting techniques, and all phases of thermal texture hair designing. Theories related to all areas mentioned above are also discussed.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30pm - 6:00pm</td>
<td>MTWTh</td>
<td>MH 126</td>
</tr>
<tr>
<td>&amp; lab 6:00pm - 9:30pm</td>
<td>MTWTh</td>
<td>MH 237</td>
</tr>
<tr>
<td>&amp; lab 7:00am - 10:00am</td>
<td>SAT</td>
<td>MH 237</td>
</tr>
<tr>
<td>&amp; lab 10:30am - 2:00pm</td>
<td>SAT</td>
<td>MH 237</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 10/27/2014, Ends 12/18/2014)

**COSMETOLOGY 121**

JUNIOR SALON II

Prerequisite: Cosmetology 112;

The students are exposed to intermediate instruction in permanent waving, chemical straightening, thermal straightening and curling, skin and hair care, with instruction on the use of facials, hair cutting and nail care. Theories that are related to all areas mentioned above will be discussed.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30pm - 6:00pm</td>
<td>MTWTh</td>
<td>MH 247</td>
</tr>
<tr>
<td>&amp; lab 6:00pm - 9:30pm</td>
<td>MTWTh</td>
<td>MH 247</td>
</tr>
<tr>
<td>COURSE CODE</td>
<td>COURSE NAME</td>
<td>UNITS</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>COSMETOLOGY 122</td>
<td>JUNIOR SALON III</td>
<td>6.00</td>
</tr>
<tr>
<td>COSMETOLOGY 131</td>
<td>TINTING I</td>
<td>6.00</td>
</tr>
<tr>
<td>COSMETOLOGY 132</td>
<td>TINTING II</td>
<td>6.00</td>
</tr>
<tr>
<td>COSMETOLOGY 141</td>
<td>SENIOR SALON I</td>
<td>6.00</td>
</tr>
<tr>
<td>COSMETOLOGY 142</td>
<td>SENIOR SALON II</td>
<td>6.00</td>
</tr>
<tr>
<td>CULINARY ARTS</td>
<td>Chair: Steven Kasmar</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**COSMETOLOGY 122**

**JUNIOR SALON III**
Prerequisite: Cosmetology 121.
The course covers all areas of hair coloring, bleaching, toning, highlighting, foiling, cap frosting and color correction. Additional subjects include: hair cutting, chemical straightening, thermal straightening and curling, permanent wave, and permanent wave, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling.

**COSMETOLOGY 131**

**TINTING I**
Prerequisite: Cosmetology 112.
The course covers all areas of artificial nail procedures and the study and applications of artificial nail products. Theories related to the above mentioned subjects will be discussed.

**COSMETOLOGY 132**

**TINTING II**
Prerequisite: Cosmetology 131.
The course covers all areas of hair coloring, bleaching, toning, ‘special effect’ highlighting, foiling, cap frosting and color correction. Additional subjects include: hair cutting, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling, permanent wave, chemical straightening, thermal straightening and curling.

**CULINARY ARTS**
Chair: Steven Kasmar, Sage Hall - SA/H-118, (213) 763-7332

**CULINARY ARTS ORIENTATION I (CSU)**
Prerequisite: Culinary Arts 112. Corequisite: Culinary Arts 112.

The course introduces students to the world of commercial food production. Students are introduced to culinary theories and develop skills in the art of knife handling, ingredient identification, small and large equipment use, weights and measures, recipe development and cooking fundamentals.

**CULINARY ARTS 111**

**CULINARY ARTS ORIENTATION I (CSU)**
Prerequisite: Culinary Arts 112. Corequisite: Culinary Arts 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 the art of knife handling, ingredient identification, small and large equipment use, weights and measures, recipe development and cooking fundamentals.
### FALL 2014 Class Schedule

**CULINARY ARTS 112**  
Sanitation and Safety (CSU)  
Corequisite: Culinary Arts 111.  
This class discusses sanitation and safety as it applies to the restaurant industry; HACCP protocol, preventing food borne outbreaks, introduction to microbiology and establishing ‘flow of food systems’ will be covered, federal, state and local legislation and employee training, National Restaurant Association Serve Safe Test will be given at conclusion of this class.

| 7501 | 7:10am - 9:25am | MW | D. SCHERER | SA/ H103 | (8 Week Class - Starts 10/27/2014, Ends 12/18/2014) |
| 7502 | 7:10am - 9:20am | MW | D. WARRINER | OH/ F223 | (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |
| 7505 | 2:00pm - 4:05pm | MW | MH 308 | (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |
| 7531 | 2:00pm - 4:05pm | MW | MH 308 | (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |
| 7551 | 4:25pm - 6:35pm | MW | MH 308 | (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |
| 7553 | 4:25pm - 6:25pm | MW | MH 308 | (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |

**CULINARY ARTS 120**  
FRONT OF HOUSE/DINING SERVICES  
Front of house topics pertinent to restaurant & hospitality management, dining room management, service, staffing, use of POS system, money management, stewarding. Serve Safe “Alcohol” test will be administered at the conclusion of the course.

| 7524 | 9:30am - 10:30am | MTWTh | SA/ H103 |
| & lab | 10:05am - 12:10pm | MTWTh | SA/ H103 |
| (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |
| 7525 | 9:35am - 10:35am | MTWTh | SA/ H103 |
| & lab | 10:35am - 2:00pm | MTWTh | SA/ H109 |
| (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |

**CULINARY ARTS 121**  
GARDE MANGER I - BAKING (CSU)  
Prerequisite: Cul Art 111 & 112.  
Introduction to Garde Manger and Baking. Introduction to basic garde manger, salads, cold sauces and salad dressings dressing, baking principles including yeast and sweet doughs, laminated doughs, mixing methods, and decorating.

| 7506 lab | 6:30am - 10:05am | MTWTh | SA/ H107 |
| & lab | 10:05am - 12:10pm | MTWTh | SA/ H119 |
| (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |
| 7509 lab | 6:30am - 10:05am | MTWTh | SA/ H107 |
| & | 10:05am - 12:15pm | MTWTh | SA/ H119 |
| (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |
| 7518 lab | 2:00pm - 5:40pm | TTh | SA/ H107 |
| & | 5:40pm - 7:40pm | TTh | SA/ H119 |

**CULINARY ARTS 122**  
GARDE MANGER II - CHARCUTIERE (CSU)  
Prerequisite: Culinary Arts 111 and Culinary Arts 112;  
Students will become proficient in the historical features of the grade 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 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.

| 7507 | 7:25am - 9:15am | MTWTh | SA/ H119 |
| & lab | 9:15am - 1:05pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |
| 7508 | 7:30am - 9:30am | MTWTh | SA/ H107 |
| & lab | 9:30am - 1:05pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |

| 7518 | 2:00pm - 5:40pm | MW | SA/ H107 |
| & | 5:40pm - 7:40pm | MW | SA/ H301 |

**CULINARY ARTS 131**  
6.00 Units  
**CULINARY ARTS - BREAKFAST I (CSU)**  
Prerequisite: Culinary Arts 111; Culinary Arts 112;  
Students are introduced to a la minute breakfast cookery, hot sandwiches, culinary management and supervision. Upon completion the students will be able to identify and safely use the tools and equipment used in breakfast cookery as well as egg cookery, breakfast meats, cereals, beverages, hot sandwiches, a la minute preparation, brunch items, pancakes, and waffles. Other areas covered include portion control, inventory pars, weights and measures, labor and cost control. Management, supervision, leadership, customer relations, communication, and teamwork and time management methods are introduced, discussed and practiced. Effective evaluation, discipline and delegation methods are outlined, computerized food and labor cost and inventory controls are presented and practiced.

| 7510 lab | 6:30am - 10:10am | MTWTh | SA/ H107 |
| & | 10:10am - 12:10pm | MTWTh | SA/ H132 |
| (8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |

| 7513 lab | 6:30am - 10:10am | MTWTh | SA/ H107 |
| & | 10:10am - 12:10pm | MTWTh | SA/ H132 |
| (8 Week Class - Starts 9/2/2014, Ends 12/18/2014) |

**CULINARY ARTS 132**  
6.00 Units  
**CULINARY ARTS - ENTREMETRIER SAUCIER (CSU)**  
Prerequisite: Culinary Arts 111; Culinary Arts 112;  
Students will examine and prepare the theory and production techniques involved in the preparation of stocks, sauces, purées, soups, vegetables, and vegetables in a classical and contemporary cooking approach. Students will develop a practical understanding of the role and application of sauce pairing with the center of the plate, vegetables, starches, and dessert items.

| 7511 | 7:30am - 9:30am | MTWTh | SA/ H134 |
| & lab | 9:30am - 1:10pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |
| 7512 | 7:30am - 9:30am | MTWTh | SA/ H134 |
| & lab | 9:30am - 1:10pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 9/2/2014, Ends 10/24/2014) |

**CULINARY ARTS 141**  
6.00 Units  
**BUTCHERY/CENTER OF THE PLATE AND QUANTITY FOOD COOKERY (CSU)**  
Prerequisite: Culinary Arts 111; Culinary Arts 131; Culinary Arts 132; Culinary Arts 121, Culinary Arts 122 and Culinary Arts 112;  
This course covers quality and quantity food production of meats, fish, and poultry. Students will practice center of the plate food preparation, meat identification and fabrication with an emphasis on portion control, sauce pairing and accompaniment compatibility. Students will discuss, compare and prepare various international foods.

| 7514 | 7:15am - 9:15am | MTWTh | SA/ H132 |
| & lab | 9:15am - 12:55pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| 7517 | 7:15am - 9:15am | MTWTh | SA/ H132 |
| & lab | 9:15am - 1:05pm | MTWTh | SA/ H107 |
| (8 Week Class - Starts 10/27/2014, Ends 12/18/2014) |

**CULINARY ARTS 170**  
2.00 Units  
**CULINARY NUTRITION (CSU)**  
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 food service teams, at spas and resorts, major hospital chains, entertainment or transportation industries or in health care.

| 7516 | 3:45pm - 5:50pm | MW | SA/ H103 |
| (8 Week Class - Starts 9/2/2014, Ends 10/23/2014) |
### FALL 2014 Class Schedule

**7534** 7:00am - 1:00pm M  SA/H314  
(8 Week Class - Starts 9/2/2014, Ends 10/24/2014)

**7537** 7:00am - 11:15am M  SA/H314  
(8 Week Class - Starts 10/7/2014, Ends 12/18/2014)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CULINARY ARTS 235</strong></td>
<td>MENU PLANNING AND PURCHASING (CSU)</td>
<td>4.00</td>
<td>M,W</td>
<td>7:00am-10:20am</td>
<td>SA/H107</td>
</tr>
<tr>
<td><strong>CULINARY ARTS 240</strong></td>
<td>RESTAURANT SUPERVISION AND TRAINING (CSU)</td>
<td>2.00</td>
<td>M,W</td>
<td>7:00am-10:10am</td>
<td>SA/H107</td>
</tr>
<tr>
<td><strong>CULINARY ARTS 941</strong></td>
<td>COOPERATIVE EDUCATION - CULINARY ARTS (CSU)</td>
<td>4.00</td>
<td>M,W</td>
<td>7:00am-10:20am</td>
<td>SA/H301</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIESEL AND RELATED TECHNOLOGY 112</strong></td>
<td>DIESEL ENGINE AND ELECTRICAL FUNDAMENTALS</td>
<td>11.00</td>
<td>M,W</td>
<td>7:00am-10:20am</td>
<td>SA/H134</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIESEL AND RELATED TECHNOLOGY 122</strong></td>
<td>DIESEL FUEL INJECTION SYSTEMS</td>
<td>11.00</td>
<td>M,W</td>
<td>7:00am-10:20am</td>
<td>SA/H107</td>
</tr>
</tbody>
</table>

### Diesel and Related Technology (CSU)

- **DIESEL FUEL SYSTEMS**  
  - **DIESEL FUEL INJECTION SYSTEMS**
  - **DIESEL ENGINE OVERHAUL & ELECTRONIC ENGINE CONTROLS**
  - **DIESEL ENGINE OVERHAUL & ELECTRONIC ENGINE CONTROLS**

- **DIESEL AND RELATED TECHNOLOGY**
  - **DIESEL AND RELATED TECHNOLOGY 122A**  
  - **DIESEL AND RELATED TECHNOLOGY 122B**  
  - **DIESEL AND RELATED TECHNOLOGY 122C**  
  - **DIESEL AND RELATED TECHNOLOGY 122D**  
  - **DIESEL AND RELATED TECHNOLOGY 122E**

Please visit the online program homepage at [http://moodle.lattc.edu](http://moodle.lattc.edu) prior to the start of class for directions, or see the "Online Class" section of this schedule for more information.

**Updated: May 6, 2014**
FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>DIGITAL MEDIA 100</td>
<td>3.00</td>
</tr>
<tr>
<td>110</td>
<td>DIGITAL MEDIA 110</td>
<td>3.00</td>
</tr>
<tr>
<td>150</td>
<td>DIGITAL MEDIA 150</td>
<td>3.00</td>
</tr>
<tr>
<td>151</td>
<td>DIGITAL MEDIA 151</td>
<td>3.00</td>
</tr>
<tr>
<td>302</td>
<td>DIESEL AND RELATED TECHNOLOGY 302</td>
<td>6.00</td>
</tr>
<tr>
<td>303</td>
<td>HYBRID AND PLUG-IN ELECTRIC VEHICLE</td>
<td></td>
</tr>
<tr>
<td>363</td>
<td>DRAFTING</td>
<td>3.00</td>
</tr>
<tr>
<td>364</td>
<td>PRINCIPLES OF ECONOMICS I (UC:CSU)</td>
<td>3.00</td>
</tr>
<tr>
<td>365</td>
<td>PRINCIPLES OF ECONOMICS II (UC:CSU)</td>
<td>3.00</td>
</tr>
<tr>
<td>366</td>
<td>ECONOMICS</td>
<td>3.00</td>
</tr>
<tr>
<td>367</td>
<td>EDUCATION</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**DIGITAL MEDIA**

Chair: Carole Anderson, Cypress Hall - CY/D-222, (213) 763-3642

**DIGITAL MEDIA 100**

INTRODUCTION TO DIGITAL VIDEO (CSU)

Students are introduced to the process and tools of non-linear video editing. Basic skills will be developed in editing techniques, video formats, compression types, industry terminology, 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.

**DIGITAL MEDIA 110**

VIDEO PRODUCTION: FOOTAGE ACQUISITION

Students will learn the craft of video production through hands-on producing of short digital video projects. Over the duration of the course, the students will discover planning, pre-producing, shooting, and post-production of short projects. Projects will emphasize resourcefulness, collaboration and group discourse and introduce students to the technical and creative crafts of shooting and directing digital video.

**DIGITAL MEDIA 150**

INTRODUCTION TO MOBILE APPLICATIONS

Prerequisite: VISCOM 103

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.

**DIGITAL MEDIA 151**

INTRODUCTION TO INTERFACE DESIGN (CSU)

Prerequisite: VISCOM 103

Students will develop an understanding of the core principles necessary to design successful and dynamic Graphical User Interfaces. Course covers the essentials of visual design: color theory, layout and composition, as well as interface behavior and user experience.

**DRAFTING**

Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

**DRAFTING 063**

CADD FOR BUILDING (CSU)

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. Standards, codes, regulatory frameworks and templates are applied as per industry guidance. The student learns how to draw in digital environments and visualize multiple disciplines into a single digital model. This procedure eliminates many of the uncertainties found during the construction phase as well as clashing, scheduling conflicts, construction alignment and 'cradle to cradle' strategies.

**ECONOMICS**

Chair: Paulette Bailey, Cedar Hall - CH/K-225, (213) 763-7269

**ECONOMICS 001**

PRINCIPLES OF ECONOMICS I (UC:CSU)

This course provides an introductory of microeconomic analysis and their application to business situation. Emphasis is on supply and demand, elasticity, consumer choice optimization, profits, economic rent, financial environment of business, market structure, economic and social regulations, antitrust policy in a globalized economy.

**ECONOMICS 002**

PRINCIPLES OF ECONOMICS II (UC:CSU)

This macroeconomics course concentrates on the behavior of the economy as a whole and includes such economy wide phenomena as changes in unemployment, general price level and national income. Emphasis is placed on public spending and public choice, economic fluctuations and business cycles. Other topics include fiscal and monetary policy, deficit spending and public debt, money creation, banking and central banking, policies and prospects for global economic growth, comparative advantage, international trade and contemporary economic developments.

**EDUCATION**

Chair: Alicia Rodriquez-Estrada, Aspen Hall - AH-TE-516, (213) 763-3938

**EDUCATION 001**

INTRODUCTION TO TEACHING (CSU)

This course introduces students to the field of professional education and the concepts and issues that are related to K - 8 education. Topics of this course include a basic understanding of a teacher's role and challenges in society, contemporary education issues within historical, social, philosophical, legal, and political contexts, impact of government policies on schools and children, and the various perspectives on curriculum and instruction. Students are required to complete a minimum of 45 hours of fieldwork in an approved elementary, self-contained classroom. Test, fingerprint (live scan), and background check may be required by individual elementary school.

**EDUCATION 002**

ECONOMICS 1 is also offered through ITV. Please see schedule ad on page 58

**EDUCATION 003**

DRAFTING 063

CADD FOR BUILDING (CSU)

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. Standards, codes, regulatory frameworks and templates are applied as per industry guidance. The student learns how to draw in digital environments and visualize multiple disciplines into a single digital model. This procedure eliminates many of the uncertainties found during the construction phase as well as clashing, scheduling conflicts, construction alignment and 'cradle to cradle' strategies.

**ECONOMICS 001**

PRINCIPLES OF ECONOMICS I (UC:CSU)

This course provides an introductory of microeconomic analysis and their application to business situation. Emphasis is on supply and demand, elasticity, consumer choice optimization, profits, economic rent, financial environment of business, market structure, economic and social regulations, antitrust policy in a globalized economy.

**ECONOMICS 002**

PRINCIPLES OF ECONOMICS II (UC:CSU)

This macroeconomics course concentrates on the behavior of the economy as a whole and includes such economy wide phenomena as changes in unemployment, general price level and national income. Emphasis is placed on public spending and public choice, economic fluctuations and business cycles. Other topics include fiscal and monetary policy, deficit spending and public debt, money creation, banking and central banking, policies and prospects for global economic growth, comparative advantage, international trade and contemporary economic developments.

**EDUCATION**

Chair: Alicia Rodriquez-Estrada, Aspen Hall - AH-TE-516, (213) 763-3938

**EDUCATION 001**

INTRODUCTION TO TEACHING (CSU)

This course introduces students to the field of professional education and the concepts and issues that are related to K - 8 education. Topics of this course include a basic understanding of a teacher's role and challenges in society, contemporary education issues within historical, social, philosophical, legal, and political contexts, impact of government policies on schools and children, and the various perspectives on curriculum and instruction. Students are required to complete a minimum of 45 hours of fieldwork in an approved elementary, self-contained classroom. Test, fingerprint (live scan), and background check may be required by individual elementary school.

**EDUCATION 002**

ECONOMICS 1 is also offered through ITV. Please see schedule ad on page 58

**EDUCATION 003**

DRAFTING 063

CADD FOR BUILDING (CSU)

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. Standards, codes, regulatory frameworks and templates are applied as per industry guidance. The student learns how to draw in digital environments and visualize multiple disciplines into a single digital model. This procedure eliminates many of the uncertainties found during the construction phase as well as clashing, scheduling conflicts, construction alignment and 'cradle to cradle' strategies.
ELECTRICAL CONSTRUCTION AND MAINTENANCE

Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

ELECTRICAL CONSTRUCTION AND MAINTENANCE 007
HOME THEATER & COMMERCIAL AUDIO, VIDEO INSTALLATION THEORY AND PRACTICES
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.
4758 6:00pm - 7:05pm TTh SQ/ B351
& lab 7:05pm - 9:10pm TTh SQ/ B351

ELECTRICAL CONSTRUCTION AND MAINTENANCE 100
(O.S.H.A.) SAFETY STANDARDS: CONSTRUCTION & INDUSTRY
(Same as Building Construction Techniques 102).
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.
8130 8:00am - 10:00am W CY/ D301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 101
ELECTRICAL CRAFT HELPERS (CSU)
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.
4720 5:00pm - 9:15pm W EDM TRAN
EDM Training Facility - 2nd Floor Classroom, 11760 Truedale Street, Sun Valley 91352
4842 5:00pm - 9:15pm T EDM TRAN
EDM Training Facility - 2nd Floor Classroom, 11760 Truedale Street, Sun Valley 91352
4844 5:30pm - 9:45pm W CETR DIST
Central District Headquarters - 3rd Floor conference Room, 1350 Wall Street, Los Angeles, California 90015
4856 5:30pm - 10:00pm T CETR DIST
Central District Headquarters - 3rd Floor conference Room, 1350 Wall Street, Los Angeles, California 90015

ELECTRICAL CONSTRUCTION AND MAINTENANCE 105
FUNDAMENTALS OF SOLAR ELECTRICITY (CSU)
This course is designed for students interested in a career in the solar industry. The fundamental principles and functions of photo voltaic industry will be introduced. This course covers planning, installation, maintenance and all the necessary components for a photo voltaic system. The transmission and distribution of electric power will be reviewed. Basic concepts of electricity, identification, functions and operations of components will be surveyed.
4852 6:00pm - 9:10pm F OH/ F208
8334 2:30pm - 5:40pm F OH/ F208

ELECTRICAL CONSTRUCTION AND MAINTENANCE 110
RENEWABLE ENERGY SYSTEMS (CSU)
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, material use, and methods of construction will also be covered, along with overviews of California and US energy policy and global energy use.
4620 6:00pm - 9:10pm F SQ/ B302

ELECTRICAL CONSTRUCTION AND MAINTENANCE 115
FUNDAMENTALS OF D.C. ELECTRICITY
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 Kirchhoff's Voltage and Current Laws.
4707 6:00pm - 9:10pm W OH/ F222
4708 6:00pm - 9:10pm F SQ/ B351
4812 6:00pm - 9:10pm Th SQ/ B330
8112 7:00am - 8:25am TTh SQ/ B353
8126 7:00am - 8:25am TTh SQ/ B301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 116
HANDTOOLS AND WIRING PRACTICES (CSU)
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.
4712 lab 6:00pm - 9:10pm TTh SQ/ B353
4859 lab 6:00pm - 9:20pm WF SQ/ B353
8123 lab 7:00am - 1:30pm F SQ/ B353
8127 lab 7:00am - 1:30pm F SQ/ B301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 117
ELEMENTARY CIRCUIT PRACTICES
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.
8124 lab 8:35am - 11:45am MTWTh SQ/ B353
8128 lab 8:35am - 11:45am MTWTh SQ/ B301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 119
ELECTRICAL CONSTRUCTION AND MAINTENANCE
This is an entry level course in electrical calculations and measurements with special emphasis on the application problems encountered in the electrical construction industry.
8125 7:00am - 8:25am MW SQ/ B353
8129 7:00am - 8:25am MW SQ/ B301
8303 3:10 hrs/wk TBA - ON LINE
Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

ELECTRICAL CONSTRUCTION AND MAINTENANCE 120
INDUSTRIAL CONTROL SYSTEMS (CSU)
Prerequisite: Electrical Construction and Maintenance 115; and Electrical Construction and Maintenance 119. This course is a study of motors, circuits and devices used for controlling electric motors and the National Electrical Code covering motor installation.
4713 6:00pm - 9:10pm M SQ/ B336
8136 10:45am - 12:10pm MT SQ/ B320
8140 9:00am - 10:25am MT SQ/ B320
**ELECTRICAL CONSTRUCTION AND MAINTENANCE 128 3.00 Units**  
**INDUSTRIAL CONTROL SYSTEMS PRACTICES (CSU)**  
**Prerequisite:** Electrical Construction and Maintenance 120; and Electrical Construction and Maintenance 136 or Electrical Construction and Maintenance 184.  
This course fosters 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.  
8137 lab 7:00am - 9:20am MThF  
8141 lab 10:45am - 12:50pm MThF  
8142 lab 6:00pm - 9:10pm M  
8143 lab 6:00pm - 9:10pm W  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 128A  
1.00 Unit  
INDUSTRIAL CONTROL SYSTEMS PRACTICES A (CSU)  
This course fosters 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.  
4714 lab 6:00pm - 9:10pm M  
4715 lab 6:00pm - 9:10pm W  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 128B  
1.00 Unit  
INDUSTRIAL CONTROL SYSTEMS PRACTICES B (CSU)  
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.  
4716 lab 6:00pm - 9:10pm M  
4717 lab 6:00pm - 9:10pm W  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 128C  
1.00 Unit  
INDUSTRIAL CONTROL SYSTEMS PRACTICES C (CSU)  
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.  
4718 lab 6:00pm - 9:10pm M  
4719 lab 6:00pm - 9:10pm W  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 129 3.00 Units  
**FUNDAMENTALS OF ALTERNATING CURRENT**  
**Prerequisite:** Electrical Construction and Maintenance 115; Electrical Construction and Maintenance 119;  
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.  
4732 6:00pm - 9:10pm T  
4734 6:00pm - 9:10pm T  
8138 10:45am - 12:10pm ThF  
8142 9:00am - 10:35am ThF  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 130 3.00 Units  
**PRINCIPLES OF INDUSTRIAL ELECTRIC POWER**  
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, efficiencies and power factor corrections are also covered.  
8144 10:20am - 11:35am MW  
8149 8:45am - 10:10am MW  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 136 3.00 Units  
**INDUSTRIAL POWER APPLICATIONS**  
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.  
8145 lab 7:00am - 10:10am MWF  
8150 lab 10:10am - 1:20pm MWF  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 137 3.00 Units  
**INDUSTRIAL ELECTRONIC CONTROL SYSTEMS**  
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.  
8146 10:10am - 11:35am TTh  
8151 8:45am - 10:10am TTh  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 138 2.00 Units  
**APPLICATIONS OF ELECTRICAL AND ELECTRONICS DEVICES (CSU)**  
This course studies identification and operational tests on various types of electrical and electronic equipment, including transformers, electronic motor speed control systems and other industrial control devices.  
8147 lab 7:00am - 10:10am TTh  
8152 lab 10:10am - 1:20pm TTh  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 140 3.00 Units  
**CONSTRUCTION Wiring PRINCIPLES AND PRACTICES**  
**Prerequisite:** Electrical Construction and Maintenance 130; and Electrical Construction and Maintenance 136;  
Corequisite: Electrical Construction and Maintenance 167;  
This class teaches the wiring of electrical systems, including: layout, construction methods, code requirements, installation standards, and best practices.  
8154 7:00am - 8:25am MW  
8159 7:00am - 8:25am MW  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 142  
**BASIC PROGRAMMABLE LOGIC CONTROLS (PLC)**  
Introduction to Basic Programmmable Logic Controllers, Programming Devices, Ladder Diagrams and Designing PLC Programs for Industrial Processes.  
8133 lab 1:00pm - 4:10pm F  
8148 lab 11:40am - 1:05pm TTh  
8153 lab 7:00am - 10:10am F  
ELECTRICAL CONSTRUCTION AND MAINTENANCE 150 3.00 Units  
**INTRODUCTION TO THE ELECTRICAL CODES**  
**Prerequisite:** Electrical Construction and Maintenance 130; and Electrical Construction and Maintenance 136;  
Corequisite: Electrical Construction and Maintenance 140;  
This is a study and interpretation of the National Electrical Code, local ordinances, and regulations covering wiring installations and principal circuit requirements.  
8155 7:00am - 8:25am TF  
8160 7:00am - 8:25am TF
ELECTRICAL CONSTRUCTION AND MAINTENANCE 159 4.00 Units
PROGRAMMABLE LOGIC CONTROLS (PLC)
Prerequisite: Electrical Construction and Maintenance 120; and Electrical Construction and Maintenance 136 or Electrical Construction and Maintenance 184;
Programmable Logic Controller wiring, programming, and troubleshooting techniques are learned and practiced in a hands-on laboratory environment.
4731 6:00pm - 7:15pm MW OH/ F234
& lab 7:20pm - 9:40pm MW OH/ F234

ELECTRICAL CONSTRUCTION AND MAINTENANCE 167 3.00 Units
ELECTRICAL CONSTRUCTION WIRING TECHNIQUES
Prerequisite: Electrical Construction and Maintenance 130; and Electrical Construction and Maintenance 136; Corequisite: Electrical Construction and Maintenance 150;
Students are taught and practice electrical rough-in methods, while emphasizing safe working methods and compliance with Electrical Codes and trade standards.
8156 lab 8:35am - 11:35am MWF SQ/ B337
8161 lab 8:25am - 11:35am MWF SQ/ B337

ELECTRICAL CONSTRUCTION AND MAINTENANCE 168 2.00 Units
INSTALLATION OF ELECTRICAL WIRING
Students calculate and layout of interior electric wiring systems followed by practical installations including rough-in and finishing techniques.
8157 lab 8:35am - 11:35am T SQ/ B337
& lab 7:00am - 10:10am Th SQ/ B337
8162 lab 7:00am - 10:10am Th SQ/ B337
& lab 8:25am - 11:35am T SQ/ B337

ELECTRICAL CONSTRUCTION AND MAINTENANCE 169 2.00 Units
ALTERNATING CURRENT PRACTICES
This course offers a study in operating principles, and electrical power systems. Theory of A.C. generators and motors, load calculations, efficiencies and power factor correction, and calculations related to these theories demonstrated with projects.
8139 lab 9:20am - 10:45am MTThF SQ/ B330
8143 lab 12:50pm - 2:00pm MTWThF SQ/ B330

ELECTRICAL CONSTRUCTION AND MAINTENANCE 170 3.00 Units
ELECTRICAL CODES AND ORDINANCES I
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.
4617 6:00pm - 9:10pm M SQ/ B301
4724 6:00pm - 9:10pm T SQ/ B352

ELECTRICAL CONSTRUCTION AND MAINTENANCE 171 3.00 Units
ELECTRICAL CODES AND ORDINANCES II
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.
4725 6:00pm - 9:10pm M SQ/ B353

ELECTRICAL CONSTRUCTION AND MAINTENANCE 172 3.00 Units
ELECTRICAL MATHEMATICS I
This is an entry level course in electrical calculations and measurements with special emphasis on the application problems encountered in the electrical construction industry.
4726 6:00pm - 9:10pm T OH/ F223
4730 6:00pm - 9:10pm T OH/ F222

ELECTRICAL CONSTRUCTION AND MAINTENANCE 173 3.00 Units
ELECTRICAL MATHEMATICS II
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.
4728 6:00pm - 9:10pm M SQ/ B302
8307 10:20am - 1:30pm F SQ/ B233

ELECTRICAL CONSTRUCTION AND MAINTENANCE 177 3.00 Units
ELECTRIC MOTOR CONTROL I
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.
4729 6:00pm - 9:10pm M SQ/ B352

ELECTRICAL CONSTRUCTION AND MAINTENANCE 178 3.00 Units
ELECTRIC MOTOR CONTROL II
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.
4721 6:00pm - 9:10pm T SQ/ B336

ELECTRICAL CONSTRUCTION AND MAINTENANCE 181 3.00 Units
BASIC WIRING PRACTICES
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.
4733 6:00pm - 9:10pm T SQ/ B301
4762 6:00pm - 9:10pm W SQ/ B301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 182 1.00 Unit
BASIC DIAGRAM AND CIRCUIT PRACTICES
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.
4734 lab 6:00pm - 9:10pm Th SQ/ B301
4736 lab 6:00pm - 9:10pm F SQ/ B301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 183 3.00 Units
RESIDENTIAL ELECTRIC WIRING
This Course covers the design and layout of residential electrical wiring in accordance with the National Electrical Code and recognized best trade practices.
4711 6:00pm - 9:10pm W SQ/ B352
4727 6:00pm - 9:10pm F CY/ D301

ELECTRICAL CONSTRUCTION AND MAINTENANCE 184 3.00 Units
MOTOR CONTROL PRINCIPLES AND PRACTICES
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.
4737 6:00pm - 6:45pm MW SQ/ B304
& lab 6:45pm - 9:10pm MW SQ/ B304
## FALL 2014 Class Schedule

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 186 3.00 Units
**INDUSTRIAL ELECTRICAL PRINCIPLES AND PRACTICES**
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4869 &amp; lab</td>
<td>TTh</td>
<td>6:00pm - 6:45pm</td>
<td>SQ/ B304</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>6:45pm - 9:10pm</td>
<td>SQ/ B304</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 187 4.00 Units
**ADVANCED PROGRAMMABLE CONTROLLERS**
Prerequisite: Electrical Construction and Maintenance 159; Programmable Logic Controller lecture and laboratory class, including Sequencers, Shift Registers, Analog I/O, and Subroutines, taught using RSLogix software.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4738 &amp; lab</td>
<td>TTh</td>
<td>6:00pm - 7:15pm</td>
<td>OH/ F234</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>7:15pm - 9:40pm</td>
<td>OH/ F234</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 193 3.00 Units
**CONDUIT BENDING AND CALCULATIONS**
This class teaches bending cutting and threading of conduits and the calculations that are included in these operations. EMT, rigid, and IMC conduit will be bent with hand and hydraulic benders.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4773 &amp; lab</td>
<td>TTh</td>
<td>6:00pm - 6:45pm</td>
<td>SQ/ B337</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>6:45pm - 9:10pm</td>
<td>SQ/ B337</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 193A CONDUIT BENDING LABORATORY
Corequisite: Electrical Construction and Maintenance 188.
This class teaches bending and cutting of conduits and the calculations that are included in these operations. EMT conduit will be bent with hand benders.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8158 lab</td>
<td>Th</td>
<td>10:10am - 1:20pm</td>
<td>SQ/ B337</td>
</tr>
<tr>
<td>8174 lab</td>
<td>Th</td>
<td>10:10am - 1:20pm</td>
<td>SQ/ B337</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 195 3.00 Units
**GROUNDING: FUNDAMENTALS, APPLICATIONS AND PRACTICES**
This course will cover the fundamentals of electrical system grounding principles of reviewing definitions, theory, and equipment installations. Application to accepted industry practices, compliance to the National Electrical Code, review of lightning protection and electronic equipment grounding will be covered.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4770</td>
<td>SAT</td>
<td>8:00am - 11:10am</td>
<td>SQ/ B353</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 196 4.00 Units
**INFRASTRUCTURE WIRING PRACTICES**
This course offers instruction in the installation, termination, testing and documentation of commercial infrastructure wiring including the following: Coaxial Cable, Category 3, 5, 5E, & 6 Unshielded Twisted Pair, and Fiber Optics.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4751 &amp; lab</td>
<td>MW</td>
<td>6:00pm - 7:05pm</td>
<td>SQ/ B351</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>7:05pm - 9:10pm</td>
<td>SQ/ B351</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 199 3.00 Units
**JOURNEYMAN ELECTRICIAN EXAM PREPARATION**
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4735 &amp; lab</td>
<td>T</td>
<td>6:00pm - 7:25pm</td>
<td>OH/ F208</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>7:25pm - 9:10pm</td>
<td>OH/ F208</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>6:00pm - 9:10pm</td>
<td>Th</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 205 2.00 Units
**SOLAR ENERGY INSTALLATION & MAINTENANCE PRINCIPLES AND PRACTICES**
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4863 lab</td>
<td>MW</td>
<td>6:00pm - 9:10pm</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>8335 lab</td>
<td>MW</td>
<td>2:30pm - 5:40pm</td>
<td>OH/ F151</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 212 3.00 Units
**SIGNIFICANT CHANGES NEC - NATIONAL ELECTRICAL CODE (CSU)**
Prerequisite: Electrical Construction and Maintenance 172.
Continuing education for the journeyman electrician. This course covers the changes to the National Electrical Code made during each 3-year code revision cycle. Each change to the code will be highlighted and how the change will impact the industry practices will be covered.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7878</td>
<td>TBA</td>
<td>3:10 hrs/wk</td>
<td>ON LINE</td>
</tr>
</tbody>
</table>

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the "Online Class" section of this schedule for more information.

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 215 3.00 Units
**SMALL WIND ENERGY SYSTEMS PRINCIPLES AND PRACTICES**
This course is designed for individuals that have the basic electrical and mechanical skills of an energy technician or electrician and are looking to expand into the small wind energy field. This class will help one to develop the fundamental knowledge and skill sets typically required for small wind system practitioners and to help ensure safety, quality and consumer acceptance of small wind installations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4623 &amp; lab</td>
<td>TTh</td>
<td>6:00pm - 6:45pm</td>
<td>SQ/ B203</td>
</tr>
<tr>
<td></td>
<td>&amp; lab</td>
<td>6:45pm - 9:10pm</td>
<td>SQ/ B203</td>
</tr>
</tbody>
</table>

### ELECTRICAL CONSTRUCTION AND MAINTENANCE 941 4.00 Units
**COOPERATIVE EDUCATION - ELECTRICAL CONSTRUCTION & MAINTENANCE**
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 necessary.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9072</td>
<td>TBA</td>
<td>4:25 hrs/wk</td>
<td>CY/ D236</td>
</tr>
</tbody>
</table>

### ELECTRICAL LINEMAN - APPRENTICE
Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

**ELECTRICAL LINEMAN - APPRENTICE 702B 3.00 Units**
**ELECTRICAL LINEMAN APPRENTICE RELATED TRAINING II**
Instruction is given in electricity including: electrical math, series and parallel circuits, motors, induced emf, mutual and self induction, direct current, alternating current, transformers connections, transformer fusing, capacitors, voltage regulators, definitions, core losses, polarity, markings, oil insulation, cooling practices, loading and testing, and oil circuit breakers. Street light practices, circuits, utilitarian systems, lamps, sodium and mercury lights, glassware, refractors, control of streetlights.
FALL 2014 Class Schedule

map reading, forms, test, regulators and safety in maintenance are all emphasized.

5001  5:00pm - 7:00pm  M  GLEN PS
& lab  7:00pm - 9:10pm  M  GLEN PS
City of Glendale Power Station, 800 Airway, Glendale, CA 91201-3012.
Contact 213-763-3707

ELECTRONICS

Chair: Eric Chavez,
Cedar Hall - CH/K-325, (213) 763-3782

ELECTRONICS 002  3.00 Units
INTRODUCTION TO ELECTRONICS (CSU)
An overview of the field of applied electronics and its employment opportunities. Introduction to components, nomenclature and symbols. A familiarization of equipment, specifications and physical units. This is a broad introductory course for all students who need to acquire a survey of electronic applications and principles. Electronics as applied both historically and in today's society is investigated. Typical topics included are a study of the natural forces that make electronics possible, present applications of electronics to the fields of medicine, transportation, science, communications, industry, and the start of the digital invasion into our homes and work.

0460  8:00am - 11:10am  W  CH/ K302
0461  12:40pm - 3:50:00PM  W  CH/ K302

ELECTRONICS TECHNOLOGY 153  1.00 Unit
APPLIED DC CALCULATIONS
Corequisite: Electronics Technology 151;
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.

0473  7:00am - 8:25am  Th  CH/ K324

ELECTRONICS TECHNOLOGY 157  3.00 Units
SEMICONDUCTORS DEVICES AND APPLICATIONS
Prerequisite: Electronics Technology 154;
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.

0485  7:00am - 8:25am  MW  CH/ K366

ELECTRONICS TECHNOLOGY 158  3.00 Units
SEMICONDUCTORS DEVICES AND ELECTRONICS LABORATORY
Prerequisite: Electronics Technology 155;
This is a semiconductor devices laboratory course. It includes lab exercises using semiconductors devices including diodes, transistors, and their application in electronic circuits such as Amplifiers, Switches, Power Supplies, Oscillators, and Integrated Circuits.

0488 lab  8:30am - 1:40pm  MW  CH/ K366

ELECTRONICS TECHNOLOGY 160  2.00 Units
DIGITAL CIRCUITS AND APPLICATIONS LAB
Prerequisite: Electronics Technology 154;
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 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.

0491  7:00am - 8:25am  MW  CH/ K364

ELECTRONICS TECHNOLOGY 161  3.00 Units
F.C.C. RADIO OPERATOR LICENSE
This course provides information required by the Electronics Technician to aid in passing the F.C.C. general radiotelephone license examination. The F.C.C. rules, regulations, and theory areas are explained and sample F.C.C. type tests are given. Marine and aeronautical rules and regulations are also studied and are necessary for passing the general radiotelephone examination.

7832  3:10 hrs/wk  TBA  ON LINE
Please visit the online program homepage at lattc.edu/lattc/on_line/classes.htm prior to the start of class for directions, or see the "Online Class" section of this schedule for more information. Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the "Online Class" section of this schedule for more information.
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRONICS TECHNOLOGY 252</td>
<td>3.00 Units</td>
<td></td>
</tr>
<tr>
<td>NETWORK CABLEING SPECIALIST</td>
<td>This course is designed to provide students with the basic skills used in network technology. The successful completion of the course leads to a certificate in network cabling. Students will become familiar with EIA/TIA 568 Standards (Electronics Industry Alliance/Telecommunications Association). Students will learn various cables used in network cabling industry such as CAT 5, CAT5E, and coaxial cables and correctly terminate them.</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>0509</td>
<td>7:00am - 9:05am F</td>
<td>CH/K364</td>
</tr>
<tr>
<td>0509</td>
<td>12:25am - 12:35pm F</td>
<td>CH/K364</td>
</tr>
<tr>
<td>ELECTRONICS TECHNOLOGY 253</td>
<td>3.00 Units</td>
<td></td>
</tr>
<tr>
<td>FIBER OPTICS</td>
<td>This course is designed to provide students with the knowledge and skills necessary to become entry-level technicians in the network cabling industry with a concentration in fiber optics. Successful completion of this course leads to industry certification.</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>0512</td>
<td>7:00am - 9:05am M</td>
<td>CH/K364</td>
</tr>
<tr>
<td>0512</td>
<td>12:25am - 12:35pm M</td>
<td>CH/K364</td>
</tr>
<tr>
<td>ELECTRONICS TECHNOLOGY 254</td>
<td>3.00 Units</td>
<td></td>
</tr>
<tr>
<td>COMPUTER APPLICATIONS FOR ELECTRONICS TECHNOLOGY</td>
<td>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.</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>0515</td>
<td>7:00am - 9:05am M</td>
<td>CH/K302</td>
</tr>
<tr>
<td>0515</td>
<td>12:25am - 12:35pm M</td>
<td>CH/K302</td>
</tr>
<tr>
<td>ENGINEER-OPERATION / MAINTENANCE</td>
<td>Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>STEAM PLANT OPERATION</td>
<td>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.</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>4755</td>
<td>6:00pm - 9:10pm W</td>
<td>OH/F208</td>
</tr>
<tr>
<td>ENGINEER-OPERATION/MAINTENANCE 228</td>
<td>6.00 Units</td>
<td></td>
</tr>
<tr>
<td>STEAM PLANT OPERATION</td>
<td>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.</td>
<td>6.00 Units</td>
</tr>
<tr>
<td>4756</td>
<td>6:00pm - 9:10pm TTh</td>
<td>SQ/B320</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>Chair: Jan Gangel-Vasquez, Aspen Hall, AH/TE-515, (213) 763-3929</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>ENGLISH 021</td>
<td>ENGLISH FUNDAMENTALS (NDA)</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>ENGLISH 100</td>
<td>ACCELERATED PREP: COLLEGE WRITING (NDA)</td>
<td>3.00 Units</td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>COLLEGE READING AND COMPOSITION I (UC:CSU)</td>
<td>3.00 Units</td>
</tr>
</tbody>
</table>

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.
| ENGLISH 203 | 3.00 Units |
| WORLD LITERATURE I (UC:CSU) | |
| Prerequisite: English 101; | This course surveys world literature in translation, including |
| | representative selections from Asian, Greek, and Latin literature, and |
| | European masterpieces of the Middle Ages and Renaissance, and the |
| | Bible. |
| 1372 12:00pm - 1:45pm | M | AH/T E208 |
| & 1:05 hrs/wk | TBA | AH/T E208 |

| ENGLISH 205 | 3.00 Units |
| ENGLISH LITERATURE I (UC:CSU) | |
| Prerequisite: English 101; Advisory: English 102; | This course is a chronological survey of the English language, literary |
| | forms, and ideas from the Anglo-Saxon period through the eighteenth |
| | century (Old English to the Neoclassical period), with special attention |
| | to Chaucer, Spenser, Shakespeare, Milton, Dryden, Pope, Swift, and |
| | Johnson as representatives of their respective periods. Extensive reading |
| | and discussion of works. Strong writing component and emphasis on |
| | textual analysis. Examination of the relationship between historical events |
| | and literary works. |
| 7958 3:25 hrs/wk | TBA | ON LINE |
| Please visit the online program homepage at http://moodle.lattc.edu prior |
| to the start of class for directions, or see the "Online Class" section of |
| this schedule for more information. |

| ENGLISH 207 | 3.00 Units |
| AMERICAN LITERATURE I (UC:CSU) | |
| Prerequisite: English 101; | This course surveys American literature from 1608 to the Civil War, |
| | emphasizing major writers and works, as well as writers who suggest the |
| | diversity of subject and opinion in American literature. |
| 7942 3:25 hrs/wk | TBA | ON LINE |
| Please visit the online program homepage at http://moodle.lattc.edu prior |
| to the start of class for directions, or see the "Online Class" section of |
| this schedule for more information. |

| ENGLISH 212 | 3.00 Units |
| POETRY (UC:CSU) | |
| Prerequisite: English 101. Prerequisite: English 101; | English 212 features the reading, discussion, and analysis of selected |
| | American, British, and world poetry. Students will also write poetry. The |
| | course is designed to increase the students’ understanding and |
| | enjoyment of poetry. |
| 1371 12:00pm - 2:05pm | T | AH/T E201 |
| & 1:05 hrs/wk | TBA | ON LINE |
| Please visit the online program homepage at http://moodle.lattc.edu prior |
| to the start of class for directions, or see the "Online Class" section of |
| this schedule for more information. |

| ENGLISH 240 | 3.00 Units |
| LITERATURE AND THE MOTION PICTURE I (UC:CSU) | |
| Prerequisite: English 101. | This course is designed to give the student opportunities to view, |
| | analyze, and evaluate films of artistic and cultural significance. The |
| | relationship between literature and film is discussed and evaluated. |
| 1383 1:35pm - 4:45pm | W | AH/T E215 |
### ENGLISH AS A SECOND LANGUAGE

**Chair: Jan Gangel-Vasquez**  
Aspen Hall, AH/TE-515, (213) 763-3929

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Start Date</th>
<th>End Date</th>
<th>Instructor(s)</th>
<th>Location</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8756</td>
<td>ENGLISH AS A SECOND LANGUAGE 005A</td>
<td>6.00</td>
<td>8/01/2014</td>
<td>10/24/2014</td>
<td>Chair: Christina Anketell, Aspen Hall, MA-109e, (213) 763-3741</td>
<td>OH/ F228</td>
<td>Noncredit 006CE</td>
</tr>
</tbody>
</table>

**Course Description:** This course is based primarily on critical reading and secondarily on life experiences. It is part of a sequence of courses that prepares students for college level composition. Advanced grammar skills are emphasized throughout each lesson.

**Prerequisites:** ESL 6A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Start Date</th>
<th>End Date</th>
<th>Instructor(s)</th>
<th>Location</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8758</td>
<td>ENGLISH AS A SECOND LANGUAGE 008</td>
<td>6.00</td>
<td>8/01/2014</td>
<td>10/24/2014</td>
<td>Chair: Christina Anketell, Aspen Hall, MA-109e, (213) 763-3741</td>
<td>OH/ F228</td>
<td>Noncredit 007CE</td>
</tr>
</tbody>
</table>

**Course Description:** This course is based primarily on critical reading and secondarily on life experiences. It is part of a sequence of courses that prepares students for college level composition. Advanced grammar skills are emphasized throughout each lesson.

**Prerequisites:** ESL 6A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Start Date</th>
<th>End Date</th>
<th>Instructor(s)</th>
<th>Location</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8760</td>
<td>ENGLISH AS A SECOND LANGUAGE - Noncredit 000CE</td>
<td>0.00</td>
<td>8/01/2014</td>
<td>10/24/2014</td>
<td>Chair: Carole Anderson, Cypress Hall - CY/D-222, (213) 763-3642</td>
<td>CY/ D200</td>
<td>Noncredit 008CE</td>
</tr>
</tbody>
</table>

**Course Description:** The students will be given instruction in single needle machine operation, sewing technique projects, garment assembly projects, occupational information and method of evaluation and relationship to the Fashion Industry. Basic information needed for entry level employment is provided.

**Prerequisites:** ESL 6A
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASHION DESIGN 112</td>
<td>BASIC FASHION ART AND DESIGN (CSU)</td>
<td>5.00</td>
</tr>
<tr>
<td>FASHION DESIGN 125</td>
<td>TEXTILES, FIBERS AND FABRICS, PROPERTIES AND MANUFACTURING (CSU)</td>
<td>3.00</td>
</tr>
<tr>
<td>FASHION DESIGN 130</td>
<td>DRAPING &amp; DESIGN (CSU)</td>
<td>5.00</td>
</tr>
<tr>
<td>FASHION DESIGN 132</td>
<td>ADVANCED PATTERNS AND DESIGN (CSU)</td>
<td>5.00</td>
</tr>
<tr>
<td>FASHION DESIGN 137</td>
<td>BUSTIER CREATION</td>
<td>2.00</td>
</tr>
<tr>
<td>FASHION DESIGN 138</td>
<td>TAILORING TECHNIQUES FOR READY TO WEAR</td>
<td>2.00</td>
</tr>
</tbody>
</table>

#### FASHION DESIGN 112

**Basic Fashion Art and Design (CSU)**

Instruction includes drawing the women's fashion figure, drawing children and men's figures, flats, various styles and details. Introduction to color, design theory, fabric properties and rendering. Merchandising a garment line.

- **Times and Dates:**
  - 7055: 7:00am - 8:10am, MTWThF T CY/ D203
  - 7056: 11:45am - 12:55pm, MTWThF CY/ D102
  - 7057: 7:00am - 8:10am, MTWThF CY/ D203
  - 7058: 7:00am - 8:10am, MTWThF CY/ D203
  - 7059: 7:00am - 8:10am, MTWThF CY/ D102
  - 7060: 11:45am - 12:55pm, MTWThF CY/ D102

#### FASHION DESIGN 120

**Basic Pattern Making & Design (CSU)**

Prerequisite: Fashion Design 111; Fashion Design 112.

Instruction is given on drafting the basic block, multiple darts and gathers, style lines, sleeves, collars, skirts, and bodice silhouettes.

- **Times and Dates:**
  - 7064: 7:00am - 8:10am, MTWThF CY/ D130
  - 7065: 7:00am - 8:10am, MTWThF CY/ D331
  - 7066: 7:00am - 8:10am, MTWThF CY/ D331
  - 7067: 11:45am - 12:55pm, MTWThF CY/ D102
  - 7068: 12:55pm - 2:05pm, MTWThF CY/ D102

#### FASHION DESIGN 119

**History of Costume**

This course surveys the origins and development of clothing from prehistoric times through the 20th century. Students will explore costume from its earliest origins through adaptation and assimilation into popular 'fashion' in each century. Instruction will include in-depth study of fashion trends, creators, and political climate that has influenced the creation of men's and women's fashion. Influence of historical costume on contemporary dress is discussed.

- **Times and Dates:**
  - 7062: 12:00pm - 1:45pm, TTh CY/ D236

#### FASHION DESIGN 121

**Advanced Patterns and Design (CSU)**

Prerequisite: Fashion Design 120 and Fashion Design 122.

Instruction is given in torso, jacket and pant blocks, sleeves-in-one with the bodice, neckline variations, and style adaptations according to current styling.

- **Times and Dates:**
  - 7071: 7:00am - 8:10am, MTWThF CY/ D102
  - 7072: 7:00am - 8:10am, MTWThF CY/ D102
  - 7073: 7:00am - 8:10am, MTWThF CY/ D102
  - 7074: 7:00am - 8:10am, MTWThF CY/ D102
  - 7075: 7:00am - 8:10am, MTWThF CY/ D102

#### FASHION DESIGN 122

**Grading and Marker Making**

Instruction is given in grading the basic block, multi-patterns, the complete pattern for men, women and children, in a variety of sizes, make a marker, manipulate the one and two darts block, draft the basic dart positions, demonstrate the slash and pivot methods, draft extensions, button placement and facing.

- **Times and Dates:**
  - 7068: 7:00am - 8:10am, MTWThF CY/ D105
  - 7069: 7:00am - 8:10am, MTWThF CY/ D205
  - 7070: 11:45am - 12:55pm, MTWThF CY/ D105
  - 7071: 12:55pm - 2:05pm, MTWThF CY/ D105

### Schedule of Classes Updated: May 6, 2014
FASHION DESIGN 141 5.00 Units
ADVANCED DESIGN (CSU)
Prerequisite: Fashion Design 130 and Fashion Design 132;
Instruction is given in knit blocks, specialized fabrics, dartless blocks, 
knock-offs, and specialized projects relating to current trends.
7084 7:00am - 8:10am MTWThF CY/ D106 & lab 8:10am - 11:30am MTWThF CY/ D106 (8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
7085 7:00am - 8:10am MTWThF CY/ D230 & lab 8:10am - 11:30am MTWThF CY/ D230 (8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

FASHION DESIGN 142 5.00 Units
MANUFACTURING PRODUCTION (CSU)
Prerequisite: Fashion Design 141;
Instruction is given in design and creation of garments for showing to the 
apparel industry. Included is the creation of children’s and men's designs 
along with evening and avant garde styles and the development of a 
perfect production patterns for a minimum of two ensembles. Field trips, 
senior evaluation, and job orientation are also included.
7088 7:00am - 8:10am MTWThF CY/ D106 & lab 8:10am - 11:30am MTWThF CY/ D106 (8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

FASHION DESIGN 147 2.00 Units
FASHION SHOW PRODUCTION
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.
7116 12:00pm - 1:30pm F CY/ D236 & lab 1:05 hrs/wk TBA CY/ D236

FASHION DESIGN 222 2.00 Units
SAMPLE MAKING AND DESIGN I
- The fundamentals of garment construction using industrial patterns, 
  marker making and industrial power machines. Students are assigned 
  garment projects which demonstrate basic techniques, combining classic 
  with modern manufacturing techniques, with special emphasis on pattern 
  layouts for plaids and prints.
4250 lab 6:00pm - 9:10pm TTh B.S. TORDA CY/ D234
7101 lab 8:35am - 3:05pm SAT F. DREBSKAYA CY/ D130

FASHION DESIGN 223 2.00 Units
SAMPLE MAKING AND DESIGN II
The objective of this course is to advance the sewing skills of fashion 
design students. Students are assigned to create and construct a 
coordinated group using industrial patterns. Selected blouses, shirts, 
pants and jacket are made.
4251 lab 6:00pm - 9:10pm TTh CY/ D234
7103 lab 8:35am - 3:05pm SAT CY/ D130

FASHION DESIGN 224 2.00 Units
SAMPLE MAKING AND DESIGN III
Instruction is provided on construction and fitting of selected commercial 
pattners adapted to industry standards. Students receive instruction in the 
theory of color, line and proportion. They create or select designs 
suitable to the individual and occasion. Selected soft dressmaker type 
coats, suits, blouses, and dresses are made.
4252 lab 6:00pm - 9:10pm TTh CY/ D234
7105 lab 8:35am - 3:05pm SAT CY/ D130
### FASHION DESIGN 237  
**2.00 Units**  
**FASHION SKETCHING AND DESIGN II**  
Prerequisite: Fashion Design 236;  
Instruction includes women's day dresses, children's fashion figures and garment designs, watercolor or gouache techniques, technical illustrations, contemporary graphic layouts and the portfolio development.  
4262 lab 6:00pm - 9:10pm  
FASHION DESIGN 238  
**2.00 Units**  
**FASHION SKETCHING AND DESIGN III**  
Prerequisite: Fashion Design 236; Fashion Design 237;  
Instruction includes developing male croquis models, designing formal wear for men, women and children, exploring marker techniques, developing illustrations with markers and other mediums combined in categories of interest and concentration, writing a resume, cover letter and calling card and developing a refined professional portfolio in preparation for job interviews.  
4264 lab 6:00pm - 9:10pm  
**FASHION DESIGN 239**  
**2.00 Units**  
**GOWN DRAPING AND DESIGN I**  
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.  
4267 lab 6:00pm - 9:10pm  
7120 lab 8:35am - 3:05pm  
**FASHION DESIGN 240**  
**2.00 Units**  
**GOWN DRAPING AND DESIGN II**  
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.  
4269 lab 6:00pm - 9:10pm  
7121 lab 8:35am - 3:05pm  
**FASHION DESIGN 241**  
**2.00 Units**  
**GOWN DRAPING AND DESIGN III**  
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.  
4271 lab 6:00pm - 9:10pm  
7122 lab 8:35am - 3:05pm  
**FASHION DESIGN 244**  
**2.00 Units**  
**COMPUTER FASHION ART**  
This course offers computer fashion art instruction using the MAC computer. Emphasis is placed on the preparation and input of fashion images for portfolios and design presentations as required by industry standards.  
4273 lab 6:00pm - 9:10pm  
**FASHION DESIGN 255**  
**2.00 Units**  
**COMPUTERIZED PRODUCT DESIGN**  
This course offers advanced training and development of skills in apparel utilizing the latest versions of apparel pattern making software. Design students will concentrate on working on advanced pattern and design projects ranging from haute couture to ready-to-wear clothing.  
4276 lab 6:00pm - 9:10pm  
**FASHION DESIGN 257**  
**2.00 Units**  
**APPAREL PATTERN DESIGN SYSTEMS**  
This course provides an overview of current computer-aided design applications used in apparel pattern development. The class will cover manual pattern development and demonstrate how two-dimensional patterns translate to the computer. Students will learn to identify menus associated with pattern applications, used for Tukatech software, and will compose a full-scale pattern on the computer as it applies to industry.  
4279 lab 6:00pm - 9:10pm  
**FASHION DESIGN 264**  
**2.00 Units**  
**APPAREL COMPUTER SYSTEMS ANALYSIS (CSU)**  
This lab course demonstrates how the apparel industry uses commercial and Vendor apparel technology in the global market. Topics covered are apparel software and commercial hardware used to design and manufacture products.  
7140 7:45am - 9:10am  & lab 9:10am - 11:25am  
**FASHION DESIGN 270**  
**2.00 Units**  
**ILLUSTRATOR FOR FASHION DESIGN**  
This course offers Adobe Illustrator instruction using the Macintosh computer. Emphasis is placed on the preparation and input of fashion design ideas in flat drawings for portfolios, pattern information cards, and cost sheets as required to meet industry standards.  
7134 lab 8:35am - 3:05pm  
**FASHION DESIGN 491**  
**4.00 Units**  
**COOPERATIVE EDUCATION - FASHION DESIGN**  
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.  
9092 4:25 hrs/wk  
**FASHION MERCHANDISING**  
Chair: Carole Anderson, Cypress Hall - CY/D-222, (213) 763-3642  
**FASHION MERCHANDISING 001**  
**3.00 Units**  
**ENTREPRENEURIAL FASHION (CSU)**  
Advisory: English 101; Mathematics 105.  
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.  
7160 8:30am - 11:20am  & lab 11:20am - 1:05pm  
**FASHION MERCHANDISING 010**  
**3.00 Units**  
**RETAIL MERCHANDISING (CSU)**  
Advisory: English 101; Mathematics 105.  
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 modern 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.  
7161 8:30am - 10:15am  
**FASHION MERCHANDISING 025**  
**3.00 Units**  
**FASHION AND INDUSTRY INTERCHANGE (CSU)**  
Advisory: English 101.  
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.

---

**FALL 2014 Class Schedule**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4262</td>
<td>FASHION DESIGN 237</td>
<td>2.00</td>
</tr>
<tr>
<td>4264</td>
<td>FASHION DESIGN 239</td>
<td>2.00</td>
</tr>
<tr>
<td>4267</td>
<td>GOWN DRAPING AND DESIGN I</td>
<td>2.00</td>
</tr>
<tr>
<td>4269</td>
<td>FASHION DESIGN 240</td>
<td>2.00</td>
</tr>
<tr>
<td>7121</td>
<td>COMPUTER FASHION ART</td>
<td>2.00</td>
</tr>
<tr>
<td>4271</td>
<td>FASHION DESIGN 244</td>
<td>2.00</td>
</tr>
<tr>
<td>4273</td>
<td>FASHION DESIGN 255</td>
<td>2.00</td>
</tr>
<tr>
<td>4276</td>
<td>APPAREL PATTERN DESIGN SYSTEMS</td>
<td>2.00</td>
</tr>
<tr>
<td>4279</td>
<td>FASHION DESIGN 264</td>
<td>2.00</td>
</tr>
<tr>
<td>7140</td>
<td>APPAREL COMPUTER SYSTEMS ANALYSIS (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>7134</td>
<td>ILLUSTRATOR FOR FASHION DESIGN</td>
<td>2.00</td>
</tr>
<tr>
<td>9092</td>
<td>FASHION MERCHANDISING</td>
<td>4.00</td>
</tr>
<tr>
<td>7160</td>
<td>FASHION MERCHANDISING 001</td>
<td>3.00</td>
</tr>
<tr>
<td>7161</td>
<td>RETAIL MERCHANDISING (CSU)</td>
<td>3.00</td>
</tr>
<tr>
<td>9092</td>
<td>FASHION AND INDUSTRY INTERCHANGE (CSU)</td>
<td>3.00</td>
</tr>
</tbody>
</table>
in order to gain broad insight to the unique aspects of these industry segments.
7162 10:30am - 12:15pm  MW  CY/ D300

FASHION MERCHANDISING 030  3.00 Units
WHOLESALE MERCHANDISING (CSU)
Advisory: English 101; Mathematics 105. 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.
7163 11:00am - 12:45pm  TTh  CY/ D300

FASHION MERCHANDISING 041  3.00 Units
FASHION MERCHANDISE BUYING (CSU)
Advisory: Fashion Merchandising 10; English 101; Mathematics 105. 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.
7173 8:30am - 9:55am  TTh  CY/ D300
& lab 9:55am - 10:45am  TTh  CY/ D300

FASHION MERCHANDISING 941  4.00 Units
COORDINATE EDUCATION - FASHION MERCHANDISING
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.
9088 4:25 hrs/wk  TBA  CY/ D232

FRENCH
Chair: John Glavan, Aspen Hall - AH/TE-520, (213) 763-3931

FRENCH 001  5.00 Units
ELEMENTARY FRENCH I (UC:CSU)
This course introduces the cultures and civilization of France and the French-speaking world. This introductory course stresses the fundamentals of French pronunciation and grammar; the building of a practical basic vocabulary; and the development of the ability to speak, understand, read, and write simple contemporary French.
1447 10:10am - 12:40pm  TTh  OH/ F223

FRENCH 002  5.00 Units
ELEMENTARY FRENCH II (UC:CSU)
Prerequisite: French 1. This course completes the study of elementary grammar, increases vocabulary, includes the reading of simplified texts with continued emphasis on aural and written comprehension, oral expression, and the writing of simple French. Further study of French and Francophone cultures are expected to be covered.
1448 12:50pm - 3:20pm  TTh  OH/ F223

GEOGRAPHY
Chair: Miguel Moreno, Cedar Hall - CH/K-405, (213) 763-7322

GEOGRAPHY 002  3.00 Units
CULTURAL ELEMENTS OF GEOGRAPHY (UC:CSU)
Advisory: English 28. This course examines a broad array of the elements and expressions of human culture including population distribution, use and re-use of natural resources, principle modes of transportation and commerce, sources of energy, languages and religions, the globalization of culture, as well as the social, political, and economic causes of war and climate change.
7850 3.25 hrs/wk  TBA  ON LINE
Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

GEOLGY
Chair: Miguel Moreno, Cedar Hall - CH/K-405, (213) 763-7322

GEOLOGY 001  3.00 Units
PHYSICAL GEOLOGY (UC:CSU)
In this elementary course, the students learn Earth's internal and external forces and the features that these forces create. Students study minerals, rocks, volcanoes, earthquakes, mountain building, plate tectonics, tsunami, global warming, natural resources, and alternative energy resources. Students will also learn basic scientific principles, the process of the scientific method, map reading and geographic literacy.
1696 8:00am - 11:10am  SAT  AH/T E308
1697 8:00am - 2:50pm  F  AH/T E312
(7 Week Class - Starts 10/27/2014, Ends 12/21/2014)

HEALTH
Chair: Joseph Ratcliff, Willow Hall, WH/J-202a, (213) 763-3730

HEALTH 006  3.00 Units
NUTRITION FOR HEALTHFUL LIVING AND FITNESS ACTIVITIES (UC:CSU)
Basic nutrition theories, information for healthful food purchasing, and relationship of nutrition to disease. Benefits of exercise and techniques for body conditioning are learned. Class time includes participation in fitness activities including aerobic, developmental and flexibility exercises.
3806 4:30pm - 6:35pm  W  OH/ F216
& lab 6:35pm - 8:40pm  W  WH/ J212

HEALTH 008  3.00 Units
WOMEN'S PERSONAL HEALTH (UC:CSU)
A study of factors affecting physical, social and emotional well-being of women in our society.
1321 11:45am - 1:10pm  TTh  OH/ F215
1322 1:20pm - 2:45pm  TTh  OH/ F215

HEALTH 011  3.00 Units
PRINCIPLES OF HEALTHFUL LIVING (UC:CSU)
This course offers concepts to use today and tomorrow as guidelines for self-directed responsible living. Health topics cover the emotional and mental health, cardiovascular fitness, nutrition, chronic and communicable diseases, environmental issues, and the life cycle. Student is provided with self-assessments for examining their lifestyle habits and relationships, as well as, resources for getting help when they need it.
1324 7:00am - 8:25am  MW  OH/ F215
1325 8:35am - 10:00am  MW  OH/ F215
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>OH/ F216</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>11:45am - 1:10pm</td>
<td>MW</td>
<td>OH/ F216</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>12:00pm - 2:45pm</td>
<td>MW</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>7:00am - 8:25am</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>8:35am - 10:00am</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>10:10am - 11:35am</td>
<td>TTh</td>
<td>OH/ F216</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>11:45am - 1:10pm</td>
<td>TTh</td>
<td>OH/ F216</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>3:00pm - 4:25pm</td>
<td>MW</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>3:00pm - 4:25pm</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>6:00pm - 9:10pm</td>
<td>M</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
</tbody>
</table>

HEALTH 012 3.00 Units
SAFETY EDUCATION AND FIRST AID (UC:CSU)
This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements.

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
<tr>
<td>6:00pm - 9:10pm</td>
<td>T</td>
<td>OH/ F215</td>
<td>HEALTH 012</td>
</tr>
</tbody>
</table>

HEALTH 021 3.00 Units
HUMAN SEXUALITY (UC:CSU)
This course provides a comprehensive introduction to the cultural, behavioral, biological and psychosocial aspects of human sexuality. Topics presented include acquired immune deficiency syndrome and other sexually transmitted diseases, as well as sexual variance and dysfunction, and sexuality throughout the human life cycle.

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45am - 1:20pm</td>
<td>MW</td>
<td>J.E. BUDINGER</td>
<td>HEALTH 021</td>
</tr>
</tbody>
</table>

HISTORY
Chair: Alicia Rodríguez-Estrada,
Aspen Hall - AH/TE-516, (213) 763-3938

HISTORY 011 3.00 Units
POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES I (UC:CSU)
Advisory: English 28.
This course will examine the historical development of the United States of America from 1492 to the close of the Civil War. Emphasis is placed on the role of the major ethnic and social groups, the continuity of the American experience, and its derivation from other cultures, politics, economics, social movements, and its geography. Student must admitted into the Honors Program. See instructor and Honors Program Transfer Counselor for information. The LATTTC Honors Program is designed to encourage the development of talent and ability in highly motivated students as they begin their academic studies and prepare to transfer to a four-year college or university.

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45am - 1:10pm</td>
<td>MW</td>
<td>AH/T E313</td>
<td>HISTORY 012</td>
</tr>
<tr>
<td>8:35am - 10:00am</td>
<td>TTh</td>
<td>AH/T E313</td>
<td>HISTORY 012</td>
</tr>
<tr>
<td>11:45am - 1:10pm</td>
<td>TTh</td>
<td>AH/T E301</td>
<td>HISTORY 012</td>
</tr>
<tr>
<td>6:00pm - 9:10pm</td>
<td>T</td>
<td>AH/T E313</td>
<td>HISTORY 012</td>
</tr>
<tr>
<td>3:25 hrs/wk</td>
<td>TBA</td>
<td>ON LINE</td>
<td>HISTORY 012</td>
</tr>
</tbody>
</table>

HISTORY 021 3.00 Units
THE AFRICAN AMERICAN IN THE HISTORY OF THE U.S. I (UC:C)
Advisory: English 28.
This course will examine the historical development of the United States of America from precolonial Africa through the Civil War. Emphasis is placed on the role of the major ethnic and social groups, the continuity of the American experience, and its derivation from other cultures, politics, economics, social movements, and its geography. Student must admitted into Honors program. See instructor and Honors Program Transfer Counselor for more information. The LATTTC Honors Program is designed to encourage the development of talent and ability in highly motivate students as they begin their academic studies and prepare to transfer to a four-year college or university.

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45am - 1:10pm</td>
<td>MW</td>
<td>AH/T E313</td>
<td>HISTORY 012</td>
</tr>
</tbody>
</table>

HISTORY 011H 3.00 Units
POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES I (UC:CSU)
Advisory: English 28.
This course will examine the historical development of the United States of America from 1492 to the close of the Civil War. Emphasis is placed on the relationship of regions, the role of major ethnic and social groups, the continuity of the American experience, and its derivation from other cultures, politics, economics, social movements, and its geography. Students must be admitted into the Honors Program. See instructor and Honors Program Transfer Counselor for information. The LATTTC Honors Program is designed to encourage the development of talent and ability in highly motivated students as they begin their academic studies and prepare to transfer to a four-year college or university.

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10am - 11:35am</td>
<td>MW</td>
<td>OH/ F216</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>11:45am - 1:10pm</td>
<td>MW</td>
<td>OH/ F216</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>12:00pm - 2:45pm</td>
<td>MW</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>7:00am - 8:25am</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>8:35am - 10:00am</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>10:10am - 11:35am</td>
<td>TTh</td>
<td>OH/ F216</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>11:45am - 1:10pm</td>
<td>TTh</td>
<td>OH/ F216</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>3:00pm - 4:25pm</td>
<td>MW</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>3:00pm - 4:25pm</td>
<td>TTh</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
<tr>
<td>6:00pm - 9:10pm</td>
<td>M</td>
<td>OH/ F215</td>
<td>HISTORY 011H</td>
</tr>
</tbody>
</table>
Backstroke
Swimming
kicking and swimming the crawl and backstroke, that were developed in
This course continues to enhance the skills of the students in floating,
and perspective as revealed in the
difference in cultural heritage, values and perspective as revealed in the
features of a particular culture
traditions, values, historical events and trends, religious traditions, pop
Students study in
relation to their background, medium, organization and style. Included is
a survey of the most productive periods of Western history, from classical
Prerequisite: English 28.
Swimming
KINESIOLOGY 300
2703
1.00 Unit
AQUA AEROBICS - 2 (CSU)
INSTRUCTION AND PRACTICE IN DEEP WATER EXERCISE TO
FITNESS, MUSCULAR STRENGTH AND ENDURANCE, AND
FLEXIBILITY. NO SWIMMING SKILLS REQUIRED.
2713 1:20pm - 1:35pm  TTh POOL
& lab 1:35pm - 2:45pm TTh POOL
1.00 Unit
KINESIOLOGY 303-2
AQUA AEROBICS - 2 (CSU)
Prerequisite: KIN 303-1
INSTRUCTION AND PRACTICE IN DEEP WATER EXERCISE TO
FITNESS, MUSCULAR STRENGTH AND ENDURANCE, AND
FLEXIBILITY. NO SWIMMING SKILLS REQUIRED. THIS COURSE
BUILDS UPON KNOWLEDGE ACQUIRED IN KIN 303-1.
2714 1:20pm - 2:30pm  TTh POOL
& lab 2:30pm - 2:45pm TTh POOL
1.00 Unit
KINESIOLOGY 307
SWIM AND RUN (UC:CSU)
This course develops cardiovascular conditioning and fitness through
running and swimming laps. It enables students to gain awareness of the
importance of proper running techniques/postural alignment, including
progressive resistance training and conditioning for the purpose of
training for a triathlon. Nutrition and concepts of fitness are also covered.
2716 11:45am - 12:55pm  TTh M.A. WAGENBACH POOL
& lab 12:55pm - 1:10pm TTh M.A. WAGENBACH POOL
1.00 Unit
KINESIOLOGY 303-1
AQUA AEROBICS - 1 (CSU)
INSTRUCTION AND PRACTICE IN DEEP WATER EXERCISE TO
INCREASE KNOWLEDGE AND LEVELS OF CARDIOVASCULAR
FITNESS, MUSCULAR STRENGTH AND ENDURANCE, AND
FLEXIBILITY. NO SWIMMING SKILLS REQUIRED.
2712 lab 9:00am - 11:30am SAT POOL
& 11:30am - 12:05pm SAT POOL
& lab 9:00am - 11:30am F POOL
& lab 11:30am - 12:05pm F POOL
1.00 Unit
KINESIOLOGY 301-2
SWIMMING - 2 (UC:CSU)
Prerequisite: KIN 300-1
This course is designed to further enhance the skills of competitive
swimming in freestyle and backstroke learned in 301-1 as well as
introduce the basic principles of the competitive Breaststroke. The course
will also use slightly advanced principles of training and increased
yardage.
2713 1:20pm - 1:35pm  TTh POOL
& lab 1:35pm - 2:45pm TTh POOL
1.00 Unit
KINESIOLOGY 300-1
SWIMMING NON-SWIMMER - 1 (CSU)
This course will enhance the skills of the students in floating, kicking and
swimming the crawl and backstroke.
2701 8:35am - 8:50am MW POOL
& lab 8:50am - 10:00am MW POOL
2703 11:45am - 12:00pm MW POOL
& lab 12:00pm - 1:10pm MW POOL
2705 10:10am - 10:25am TTh POOL
& lab 10:25am - 11:35am TTh POOL
2707 11:45am - 12:00pm TTh POOL
& lab 12:00pm - 1:10pm TTh POOL
1.00 Unit
KINESIOLOGY 300-2
SWIMMING NON-SWIMMER - 2 (CSU)
This course continues to enhance the skills of the students in floating, kicking and
swimming the crawl and backstroke, that were developed in
Swimming-1. Additionally, skills in the sidestroke and the elementary
backstroke will be taught as well as the ability to safely enter the water
with a jump and a long shallow dive.
2702 lab 8:35am - 9:45am MW POOL
& lec 9:45am - 10:00am MW POOL
2704 lab 11:45am - 12:55pm MW POOL
& 12:55pm - 1:10pm MW POOL
2706 lab 10:10am - 10:25am TTh POOL
& 10:25am - 11:35am TTh POOL
2708 lab 11:45am - 12:55pm TTh POOL
& 12:55pm - 1:10pm TTh POOL

HUMANITIES 001
3.00 Units
CULTURAL PATTERNS OF WESTERN CIVILIZATION (UC:CSU)
Prerequisite: English 28.
This course is an introduction to the general concepts of the humanities.
Music, painting, sculpture and architecture are studied and compared in
relation to their background, medium, organization and style. Included is
a survey of the most productive periods of Western history, from classical
Greek through the Medieval period. Stress is placed on awareness of
HUMANITIES
Chair: John Glavan,
Aspen Hall - AH/TE-520, (213) 763-3931

HUMANITIES 001
3.00 Units
CULTURAL PATTERNS OF WESTERN CIVILIZATION (UC:CSU)
Prerequisite: English 28.
This course is an introduction to the general concepts of the humanities.
Music, painting, sculpture and architecture are studied and compared in
relation to their background, medium, organization and style. Included is
a survey of the most productive periods of Western history, from classical
Greek through the Medieval period. Stress is placed on awareness of
difference in cultural heritage, values and perspective as revealed in the
arts.

KINESIOLOGY
Chair: Joseph Ratcliff,
Willow Hall, WH/J-202a, (213) 763-3730

KINESIOLOGY 300-1
1.00 Unit
SWIMMING NON-SWIMMER - 1 (CSU)
This course will enhance the skills of the students in floating, kicking and
swimming the crawl and backstroke.

KINESIOLOGY 300-2
1.00 Unit
SWIMMING NON-SWIMMER - 2 (CSU)
This course continues to enhance the skills of the students in floating, kicking and
swimming the crawl and backstroke, that were developed in
Swimming-1. Additionally, skills in the sidestroke and the elementary
backstroke will be taught as well as the ability to safely enter the water
with a jump and a long shallow dive.
KINESIOLOGY 329-1  1.00 Unit
BODY CONDITIONING -1 (CSU)
This class is designed to incorporate forms, concepts and techniques associated with body conditioning. Including Pilates, Core Strengthening, Cardiovascular Exercise and Muscular Strength and Endurance exercises.
2201 7:00am - 7:15am  MW  CH/K BASE
& lab 7:15am - 8:25am  MW  CH/K BASE
2202 8:35am - 8:50am  MW  CH/K BASE
& lab 8:50am - 10:00am  MW  CH/K BASE
2205 10:10am - 10:25am  MW  CH/K BASE
& lab 10:25am - 11:35am  MW  CH/K BASE
2207 11:45am - 12:00pm  MW  CH/K BASE
& lab 12:00pm - 1:10pm  MW  CH/K BASE
2209 1:20pm - 1:35pm  MW  CH/K BASE
& lab 1:35pm - 2:45pm  MW  CH/K BASE
2211 6:00pm - 6:15pm  MW  CH/K BASE
& lab 6:15pm - 7:25pm  MW  CH/K BASE
2213 7:00am - 7:15am  TTh  CH/K BASE
& lab 7:15am - 8:25am  TTh  CH/K BASE
2215 8:35am - 8:50am  TTh  CH/K BASE
& lab 8:50am - 10:00am  TTh  CH/K BASE
2217 10:10am - 10:25am  TTh  CH/K BASE
& lab 10:25am - 11:35am  TTh  CH/K BASE
2219 11:45am - 12:00pm  TTh  CH/K BASE
& lab 12:00pm - 1:10pm  TTh  CH/K BASE
2221 1:20pm - 1:35pm  TTh  CH/K BASE
& lab 1:35pm - 2:45pm  TTh  CH/K BASE
2223 6:00pm - 6:15pm  TTh  CH/K BASE
& lab 6:15pm - 7:25pm  TTh  CH/K BASE

KINESIOLOGY 329-2  1.00 Unit
BODY CONDITIONING–2 (CSU)
Prerequisite: KIN 329-1
This class is designed to incorporate intermediate forms, concepts and techniques associated with body conditioning. Including Pilates, Core Strengthening, Cardiovascular Exercise and Muscular Strength and Endurance exercises.
2202 lab 7:00am - 8:10am  MW  CH/K BASE
& 8:10am - 8:25am  MW  CH/K BASE
2204 lab 8:35am - 8:45am  MW  CH/K BASE
& 8:45am - 10:00am  MW  CH/K BASE
2206 10:10am - 11:20am  MW  CH/K BASE
& 11:20am - 11:35am  MW  CH/K BASE
2208 lab 11:45am - 12:55pm  MW  CH/K BASE
& 12:55pm - 1:10pm  MW  CH/K BASE
2210 lab 1:20pm - 2:30pm  MW  CH/K BASE
& 2:30pm - 2:45pm  MW  CH/K BASE
2212 lab 6:00pm - 7:10pm  MW  CH/K BASE
& 7:10pm - 7:25pm  MW  CH/K BASE
2214 lab 7:00am - 8:10am  TTh  CH/K BASE
& 8:10am - 8:25am  TTh  CH/K BASE
2216 lab 8:35am - 8:45am  TTh  CH/K BASE
& 8:45am - 10:00am  TTh  CH/K BASE
2218 lab 10:10am - 11:20am  TTh  CH/K BASE
& 11:20am - 11:35am  TTh  CH/K BASE
2220 lab 11:45am - 12:55pm  TTh  CH/K BASE
& 12:55pm - 1:10pm  TTh  CH/K BASE
2222 lab 1:20pm - 2:30pm  TTh  CH/K BASE
& 2:30pm - 2:45pm  TTh  CH/K BASE
2224 lab 6:00pm - 7:10pm  TTh  CH/K BASE
& 7:10pm - 7:25pm  TTh  CH/K BASE

KINESIOLOGY 330-1  1.00 Unit
CARDIO KICKBOXING -1 (CSU)
This is the first level of a non-contact activity course designed to use basic kicking and punching techniques to improve overall fitness including: cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition.
2225 11:45am - 12:00pm  TTh  LG/ G100
& lab 12:00pm - 1:10pm  TTh  LG/ G100

KINESIOLOGY 330-2  1.00 Unit
CARDIO KICKBOXING-2 (CSU)
This is the second level of a non-contact activity course designed to build on basic kicking and punching techniques from Cardio Kickboxing-1. New techniques and combinations will be added to improve overall fitness including: cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition.
2226 lab 11:45am - 12:55pm  TTh  LG/ G100
& 12:55pm - 1:10pm  TTh  LG/ G100

KINESIOLOGY 334-1  1.00 Unit
WALKING FOR FITNESS-1 (CSU)
Walking for Fitness Level 1 focuses on achieving cardiovascular fitness, building upon level 1 workouts and enhancing a healthy lifestyle through walking. Includes such topics as fitness walking training principles overload and specificity, proper nutrition, differences of aerobic versus anaerobic workouts, Target Heart Rate, proper technique, shoe selection, posture, gait, flexibility, clothing, and safety limitations. This course will assess fitness levels and identify the physical health benefits from walking.
2227 10:10am - 10:25am  MW  LG/ G100
& lab 10:25am - 11:35am  MW  LG/ G100
2229 10:10am - 10:25am  TTh  LG/ G100
& lab 10:25am - 11:35am  TTh  LG/ G100

KINESIOLOGY 350-1  1.00 Unit
WEIGHT TRAINING-1 (CSU)
This course concentrates on the theory, technique and practice of fundamental, intermediate and advance weight training. Included are assessments for overload and specificity, proper nutrition, differences of aerobic versus anaerobic workouts, Target Heart Rate, proper technique, shoe selection, posture, gait, flexibility, clothing, and safety limitations. This course will assess fitness levels and identify the physical health benefits from weight training and the benefits of proper nutrition.
2321 9:00am - 9:30am  SAT  CH/K BASE
& lab 9:30am - 10:05pm  SAT  CH/K BASE

KINESIOLOGY ATHLETICS
Chair: Dimitri Lagos,
Willow Hall, WH-J-202, (213) 763-3728

KINESIOLOGY ATHLETICS 504  3.00 Units
INTERCOLLEGIATE ATHLETICS-BASKETBALL (UC:CSU) (RPT 3)
Fundamental, intermediate and advanced principles/theories and skills of Basketball. Instruction, demonstration and practice of basic basketball skills, including passing, dribbling, shooting, rebouding, individual and team offense/defense and basketball intercollegiate competition.
2806 lab 3:00pm - 5:20pm  MTWThF  LG/ G100

KINESIOLOGY ATHLETICS 506  3.00 Units
INTERCOLLEGIATE ATHLETICS-CROSS COUNTRY (UC:CSU) (RPT 3)
This course concentrates on the theory, technique and practice of intercollegiate competition associated with running Cross Country. Conditioning and preparing for competition in regularly scheduled meets are integral parts of the daily class meetings. This course is designed to develop an understanding of advanced theory and technique of intercollegiate Cross Country competition.
2513 lab 5:50am - 8:10am  MTWThF  WH/ JFLD

KINESIOLOGY ATHLETICS 516  3.00 Units
INTERCOLLEGIATE ATHLETICS-VOLLEYBALL (UC:CSU) (RPT 3)
This course provides the skills, training and allows for participation in the intercollegiate volleyball team. Students who take this class must meet eligibility requirements as requested by the conference and/or CCCAA.
2516 lab 3:00pm - 5:20pm  MTWThF  LG/ G100
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINESIOLOGY MAJOR 100</td>
<td>INTRODUCTION TO KINESIOLOGY (UC:CSU)</td>
<td>3.00</td>
<td>Introduction to the discipline of Kinesiology/Physical Education; examination of the study of physical activity from the perspectives of experience, research, and professional practice. Topics include career opportunities, history, philosophy, current trends and curriculum development.</td>
</tr>
<tr>
<td>KINESIOLOGY MAJOR 101</td>
<td>FIRST AID AND CPR (CSU)</td>
<td>3.00</td>
<td>This course covers and expands standard emergency first aid to include situations where help is delayed, during natural disasters and major catastrophes. This course also covers the recommendations by the American Heart Association, National Safety Council and the American National Red Cross for community members to respond to non-breathing and sudden cardiac emergencies. Includes techniques for all ages along with emergency action plans, safety, and prevention of disease transmission.</td>
</tr>
<tr>
<td>KINESIOLOGY MAJOR 106</td>
<td>SPORTS ETHICS (CSU)</td>
<td>3.00</td>
<td>This course addresses a wide range of moral and ethical issues in sports. Topics include values, principles, racial and gender equity, coaching, commercialization, enhancing stimulants and ergogenic aids, eligibility, violence, sportsmanship and Code of Ethics in sports. Examines current and historical events, rules, laws and governing organizations.</td>
</tr>
<tr>
<td>KINESIOLOGY MAJOR 108</td>
<td>ANCIENT OLYMPIC GAMES</td>
<td>3.00</td>
<td>This course addresses a wide range of topics that are specific to the field of the Ancient Olympic Games. Topics include Prehistory of the Games, Athletics and Education, The Olympic Games in Ancient Greece, The Events, Sport in the Hellenistic and Roman Periods. The course will examine the historical and continuing effect of the Ancient Games on the present day Olympic movement.</td>
</tr>
<tr>
<td>LABOR STUDIES 001</td>
<td>US LABOR HISTORY (CSU)</td>
<td>3.00</td>
<td>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.</td>
</tr>
<tr>
<td>LABOR STUDIES 002</td>
<td>COLLECTIVE BARGAINING (CSU)</td>
<td>3.00</td>
<td>This course examines the dynamics of collective bargaining including: preparation of demands and negotiation strategies, offers and counter-offers, major bargaining trends, contract campaigns, and ‘mock’ bargaining.</td>
</tr>
<tr>
<td>LABOR STUDIES 003</td>
<td>LABOR RELATIONS LAW (CSU)</td>
<td>3.00</td>
<td>This course provides a comprehensive overview of labor relations laws, primarily for the private sector, covering employee, employer and union rights and obligations, unfair labor practices, union representation elections and other Labor Board procedures.</td>
</tr>
<tr>
<td>LABOR STUDIES 004</td>
<td>LABOR IN AMERICA (UC:CSU)</td>
<td>3.00</td>
<td>This course is an examination of 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.</td>
</tr>
<tr>
<td>LABOR STUDIES 005</td>
<td>GRIEVANCE AND ARBITRATION PROCEDURES (CSU)</td>
<td>3.00</td>
<td>Students learn to identify, investigate, write and present grievances and arbitrations with emphasis on participant's own contract, grievance procedure and experiences.</td>
</tr>
<tr>
<td>LABOR STUDIES 012</td>
<td>BUILDING STRONG UNIONS (CSU)</td>
<td>3.00</td>
<td>This course examines how to manage and lead a union: including strategic planning and goal setting; effective communications; time management; team building; increasing member participation; leading organizational change.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Units</td>
<td>Course Title</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------</td>
<td>--------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LABOR STUDIES 013</td>
<td>3.00</td>
<td>UNION LEADERSHIP (CSU)</td>
<td>This class covers basic leadership skills for building influence and advancing in a union. Includes public speaking, parliamentary procedure, strategic planning, staff development, motivating and mobilizing members.</td>
</tr>
<tr>
<td>LABOR STUDIES 020</td>
<td>3.00</td>
<td>WORKERS’ RIGHTS (CSU)</td>
<td>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.</td>
</tr>
<tr>
<td>LABOR STUDIES 021</td>
<td>3.00</td>
<td>THE WORKING CLASS AND CINEMA (UC:CSU)</td>
<td>This course will examine feature film portrayals of the working class and labor unions. Students will learn to evaluate how popular culture dramatizes the struggle for workers rights and analyze how the movies have shaped public perception and values.</td>
</tr>
<tr>
<td>LABOR STUDIES 022</td>
<td>1.00</td>
<td>INTRODUCTION TO UNIONS (CSU)</td>
<td>Overview of union impact on wages, benefits, working conditions and public policies by industry. Surveys basic union structures, operation and governance.</td>
</tr>
<tr>
<td>LABOR STUDIES 023</td>
<td>1.00</td>
<td>CONTRACT NEGOTIATIONS SKILLS (CSU)</td>
<td>This course covers the basics of union contract negotiations, including preparation of demands, negotiations strategies and tactics, contract language, and major bargaining trends.</td>
</tr>
<tr>
<td>LABOR STUDIES 024</td>
<td>1.00</td>
<td>CURRENT ISSUES FOR LABOR (CSU)</td>
<td>This course explores challenges facing the American Labor Movement, including strategies and programs to address them.</td>
</tr>
<tr>
<td>LABOR STUDIES 025</td>
<td>1.00</td>
<td>GRIEVANCE HANDLING SKILLS (CSU)</td>
<td>The student will investigate, write and present union grievances.</td>
</tr>
<tr>
<td>LABOR STUDIES 026</td>
<td>1.00</td>
<td>LABOR AND DISASTER RELIEF (CSU)</td>
<td>Training labor representatives to respond to disasters, emergencies, acts of terrorism or union/employer economic actions through utilizing appropriate community, public and private resources and agencies.</td>
</tr>
<tr>
<td>LABOR STUDIES 027</td>
<td>1.00</td>
<td>UNION LEADERSHIP SKILLS (CSU)</td>
<td>Basic leadership skills for building influence and advancing in your union. Includes public speaking, parliamentary procedure, running effective meetings, communications and dealing with difficult people.</td>
</tr>
<tr>
<td>LABOR STUDIES 028</td>
<td>1.00</td>
<td>WORKER’S LEGAL RIGHTS (CSU)</td>
<td>Basic workers’ rights such as privacy, leaves, wage and hour laws, accommodating disabilities, including pregnancy and protections against wrongful discharge, etc.</td>
</tr>
<tr>
<td>LAW 038</td>
<td>3.00</td>
<td>CRIMINAL LAW &amp; PROCEDURE</td>
<td>This course will introduce the student to Criminal Law and Criminal Procedure. The student will learn the elements of a crime that must be proven as to the allegations of the commission of that particular crime. The student will learn the regulatory procedures, both federal and state, that must be followed in order to realize criminal culpability. The student will also examine the roles of the parties to a criminal action.</td>
</tr>
<tr>
<td>LEARNING SKILLS 068</td>
<td>1.00</td>
<td>STUDY SKILLS (NDA)</td>
<td>This course helps students develop basic study skills needed for college success. Study skills covered include but are not limited to: time management, organization strategies, vocabulary building, reading, note taking, and listening strategies.</td>
</tr>
</tbody>
</table>
LEARNING SKILLS LAB

Chair: Christina Anketell, Mariposa Hall - MA-109e, (213) 763-3741

LEARNING SKILLS LAB 001B
Reading (NDA) (RPT 2)
This course is an intermediate reading course which focuses on developing reading comprehension, analysis, and interpretation skills. Students develop strategies that assist them in understanding and responding to intermediate level reading material. Students will learn reading skills including: inferencing, predicting outcome, drawing conclusions, comparing and contrasting, recognizing cause and effect, and paraphrasing. This course is the second in a sequence of three progressive modules and prepares students for academic and vocational success.

0350 lab 8:00am - 9:40am MTWTh MA 108A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0351 lab 10:00am - 11:40am MTWTh MA 108A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0369 lab 8:00am - 9:40am MTWTh MA 108A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0359 lab 8:00am - 9:40am MTWTh MA 108A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0380 lab 8:00am - 9:40am MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0381 lab 10:00am - 11:40am MTWTh CY/D 204
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

LEARNING SKILLS LAB 001C
Reading (NDA) (RPT 2)
This course focuses on developing advanced reading skills including interpretation, analysis, and evaluation of fictional and non-fictional prose. Students utilize strategies to improve their understanding of the structural features of expository and narrative texts. This course is the third in a sequence of three progressive modules and prepares students for academic and vocational success.

0371 lab 1:00pm - 2:40pm MTWTh MA 109N
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

LEARNING SKILLS LAB 002B
English Fundamentals (NDA)
This course covers the standard English writing conventions and language structure including grammar, punctuation, capitalization, spelling mechanics, and sentence structure. Students learn how to write simple, compound, and complex sentences. Students also learn to recognize and correct sentence fragments, run-on sentences, and demonstrate proofreading skills. Students are introduced to paragraph structures and learn to identify topic sentences, supporting details, and concluding sentences.

0353 lab 8:00am - 9:40am MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0354 lab 10:00am - 11:40am MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0355 lab 1:00pm - 2:40pm MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0358 lab 10:00am - 11:40am MTWTh MA 109N
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0359 lab 8:00am - 9:40am MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0376 lab 8:00am - 9:40am MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0377 lab 10:00am - 11:40am MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0379 lab 1:00pm - 2:40pm MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0382 lab 8:00am - 9:40am MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
1280 lab 6:00pm - 7:40pm MTWTh MA 108B

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
1281 lab 6:00pm - 7:40pm MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

LEARNING SKILLS LAB 002C
English Fundamentals (NDA)
This course focuses on the fundamentals of academic writing. It reinforces basic skills such as the correct use of punctuation, spelling, and writing simple, compound, and complex sentence structures. Students incorporate these skills to develop and write paragraph responses that have a topic sentence, supporting details, and conclusions. Students are also introduced to Basic MLA formatting and work on Moodle activities and assignments.

0356 lab 10:00am - 11:40am MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0357 lab 1:00pm - 2:40pm MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0368 lab 10:00am - 11:40am MTWTh MA 108C
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0378 lab 1:00pm - 2:30pm MTWTh MA 108C
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0390 lab 10:00am - 11:40am MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0391 lab 1:00pm - 2:40pm MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0398 lab 1:00pm - 2:40pm MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0399 lab 1:00pm - 2:40pm MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

LEARNING SKILLS LAB 010B
Math Fundamentals B (NDA)
This is a lab course which focuses on the skills needed to prepare students for academic and vocational success by teaching the ability to compute, understand, and apply the relationship between fractions, decimals, ratios, and percentages. Students will add, subtract, multiply, and divide related problems and utilize effective learning strategies in order to find solutions to word problems and real world situations. This course is the second in a series of three progressive Learning Skills courses offering basic math to advanced math curriculum. This class provides individualized and computer-assisted instruction.

0360 lab 10:00am - 11:40am MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0361 lab 2:45pm - 4:25pm MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0362 lab 10:00am - 11:40am MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0363 lab 2:45pm - 4:25pm MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0364 lab 1:00pm - 2:45pm MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0367 lab 9:45am - 11:00am MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0392 lab 10:00am - 11:40am MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0393 lab 2:45pm - 4:25pm MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0400 lab 10:00am - 11:40am MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0401 lab 2:45pm - 4:25pm MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0402 lab 1:00pm - 2:40pm MTWTh MA 109B
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0405 lab 1:00pm - 2:40pm MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
1282 lab 6:00pm - 7:40pm MTWTh MA 109A
1283 lab 6:00pm - 7:50pm MTWTh MA 109A
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
LEARNING SKILLS LAB 010C 1.00 Unit
MATH FUNDAMENTAL C (NDA)

This basic math fundamental course focuses on the learning skills needed to succeed in pre-algebra up to beginning algebra, and is designed to help students develop symbolic reasoning and calculations with symbols that are central in algebra and geometry. This class provides individualized and computer-assisted instruction. The course is repeatable up to three times to enhance skills and proficiencies. This course is the third in a sequence of three progressive modules and prepares students for academic and vocational success.

0394 lab 8:00am - 9:40am MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0395 lab 3:45pm - 5:25pm MTWTh MA 109B
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0396 lab 8:00am - 9:40am MTWTh MA 109P
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0397 lab 3:45pm - 5:25pm MTWTh MA 109B
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
0403 lab 8:00am - 9:40am MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
0404 lab 8:00am - 9:40am MTWTh MA 109B
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)
1284 lab 3:45pm - 5:25pm MTWTh MA 109N
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
1285 lab 3:45pm - 5:25pm MTWTh MA 109A
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014)

LIBRARY SCIENCE
Chair: Judith Samuel, Mariposa Hall, MA-205b, (213) 763-3959

LIBRARY SCIENCE 101 1.00 Unit
LIBRARY RESEARCH METHODS (CSU)

This is an introductory course designed to teach students basic library research methods. This course will provide students with a broad knowledge of the use of libraries utilizing both print and electronic information sources. Information search techniques and specialized information tools are examined with an emphasis on finding research resources, writing research papers, citation styles, and plagiarism.

0952 10:10am - 11:15am M TBA 1

MACHINE SHOP - CNC
Chair: Jess Guerra, Oak Hall - OH/F-106A, (213) 763-3901

MACHINE SHOP - CNC 111 2.00 Units
PRINCIPLES OF MACHINE TOOLS I (CSU)
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.

0600 7:00am - 8:25am Th OH/ F166
& lab 7:00am - 8:25am T OH/ F166

MACHINE SHOP - CNC 112A 3.00 Units
TECHNOLOGY AND APPLICATION OF MACHINING IA
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.

0601 lab 7:00am - 10:10am MWF OH/ F152
0615 lab 6:00pm - 10:20pm TW OH/ F166

MACHINE SHOP - CNC 112B 1.00 Unit
TECHNOLOGY AND APPLICATION OF MACHINING (CAD) IB
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.

0603 lab 10:10am - 11:35am TTh OH/F 151A

MACHINE SHOP - CNC 114 3.00 Units
PRINT INTERPRETATION & SKETCHING (BLUEPRINT I) (CSU)
MSCNC 114 (Print Interpretation & Sketching (Blueprint I)) is a course that will engage students in Machine Shop topics that are related to blueprint reading, interpretation and sketching techniques. Mechanical drawings of multiple views, different drawing standards, dimensioning techniques, as well as sketching techniques for free hand drawings will also be covered.

0602 8:35am - 10:00am TTh OH/ F166

MACHINE SHOP - CNC 115 3.00 Units
BASIC APPLIED MATHEMATICAL CALCULATIONS (CSU)
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.

0604 10:10am - 11:35am MW OH/ F166

MACHINE SHOP - CNC 131A 2.00 Units
PRINCIPLES OF MACHINE TOOLS IIIA
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.

0610 lab 7:00am - 8:25am Th OH/F 166C
& 7:00am - 8:25am T OH/ F164

MACHINE SHOP - CNC 131B 3.00 Units
PRINCIPLES OF MACHINE TOOLS (CNC) IIIIB
MSCNC 131B (Principles of Machine Tools (CNC) IIIIB) 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.

0611 10:10am - 11:35am TTh OH/F 164C

MACHINE SHOP - CNC 132A 3.00 Units
TECHNOLOGY AND APPLICATION OF MACHINING IIIA
MSCNC 132A (Technology and Application of Machining IIIA) is a course that will engage students with Machine Shop specific topics related to the shop, 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.

0612 lab 7:00am - 10:10am MWF OH/ F164
MACHINE SHOP - CNC 132B 1.00 Unit
TECHNOLOGY AND APPLICATION OF MACHINING (CAM) IIIB

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.
0613 lab 8:35am - 10:00am TTh 0613 lab 8:35am - 10:00am TTh

MACHINE SHOP - CNC 135 3.00 Units
ADVANCED APPLIED MATHEMATICAL CALCULATIONS (CSU)
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.
0614 10:10am - 11:35am MW 0614 10:10am - 11:35am MW

MANAGEMENT
Chair: Paulette Bailey,
Cedar Hall - CH/K-225, (213) 763-7269

MANAGEMENT 002 3.00 Units
ORGANIZATION AND MANAGEMENT THEORY (CSU)
As part of the study of industrial organization, this course covers such topics as financing enterprise, building the internal organization, and plant layout. The study of industrial operations includes production planning and control, inventory and materials handling, quality control, and methods analysis and work simplification. In addition, this course includes a consideration of the principles of industrial relations and personnel management, office management, and internal coordination and environmental issues.
0187 1:45pm - 3:10pm TTh 0187 1:45pm - 3:10pm TTh

MANAGEMENT 013 3.00 Units
SMALL BUSINESS ENTREPRENEURSHIP (CSU)
This course will present a systematic approach to successful small business operation. The course covers personnel evaluation, pre-ownership evaluation, management and leadership, financing, location, taxation, records, employees, purchasing, advertising, sales, and credit. The course emphasizes the development of a business plan.
0188 12:00pm - 1:25pm TTh 0188 12:00pm - 1:25pm TTh

MARKETING
Chair: Paulette Bailey,
Cedar Hall - CH/K-225, (213) 763-7269

MARKETING 001 3.00 Units
PRINCIPLES OF SELLING (CSU)
This course includes the development of the fundamental principles of wholesale and specialty selling, including such phases as developing the sales plan, securing prospects, effective goods and service presentation, product analysis, closing the sale, and service after the sale.
0189 10:10am - 11:35am TTh 0189 10:10am - 11:35am TTh

MARKETING 021 3.00 Units
PRINCIPLES OF MARKETING (CSU)
This course will provide students a managerial approach to marketing principles. It covers marketing research, sales forecasting, sales cost analysis, domestic and international markets, customer motivation, production analysis, consumer and industrial markets, retailing and wholesaling, distribution channels, sales promotion and advertising, personal selling, pricing policies, market legislation and environment factors which impact marketing.
3009 6:00pm - 9:10pm Th 3009 6:00pm - 9:10pm Th

MATHEMATICS
Chair: Margaret Murphy,
Aspen Hall - AH/TE-506, (213) 763-7320

MATHEMATICS 105 3.00 Units
ARITHMETIC (NDA)
Prerequisite: Mathematics 101; Corequisite: Mathematics 100.
This course reviews fundamentals of arithmetic in college and business. Topics include basic operations with fractions, decimals, percent, and measurement. The course emphasizes problem solving techniques that are useful in practical situations.
1900 8:35am - 10:00am MW 1900 8:35am - 10:00am MW
1901 1:20pm - 2:45pm TTh 1901 1:20pm - 2:45pm TTh
1902 8:35am - 10:00am TTh 1902 8:35am - 10:00am TTh
1911 11:45am - 1:10pm TTh 1911 11:45am - 1:10pm TTh
1912 10:10am - 11:35am MW 1912 10:10am - 11:35am MW
1913 10:10am - 11:35am TTh 1913 10:10am - 11:35am TTh
1915 11:45am - 1:10pm MW 1915 11:45am - 1:10pm MW
4151 6:00pm - 9:10pm T 4151 6:00pm - 9:10pm T
4152 6:00pm - 9:10pm M 4152 6:00pm - 9:10pm M
4154 6:00pm - 9:10pm W 4154 6:00pm - 9:10pm W
4155 6:00pm - 9:10pm Th 4155 6:00pm - 9:10pm Th

MATHEMATICS 110 5.00 Units
INTRODUCTION TO ALGEBRAIC CONCEPTS (NDA)
Prerequisite: By placement only.
This course discusses abstract ideas necessary for understanding algebra and reviews selected topics in arithmetic relevant to algebra. Students are introduced to fundamental notions of algebra including signed numbers, variables, simple equations, proportional reasoning, applications, and modeling. This course also includes instruction in mathematics study skills.
1930 2:00pm - 3:10pm MTh/Th 1930 2:00pm - 3:10pm MTh/Th
1931 11:45am - 12:55pm MTh/Th 1931 11:45am - 12:55pm MTh/Th

MATHEMATICS 112 3.00 Units
PRE-ALGEBRA (NDA)
Prerequisite: Mathematics 105.
This course prepares students for their first course in Algebra. Topics include brief review of arithmetic, operations with signed numbers, variables, expressions, linear equations and word problems.
1920 7:00am - 8:25am TTh 1920 7:00am - 8:25am TTh
1922 8:35am - 10:00am MW 1922 8:35am - 10:00am MW
1924 10:10am - 11:35am MW 1924 10:10am - 11:35am MW
1926 10:10am - 11:35am TTh 1926 10:10am - 11:35am TTh
1927 11:45am - 1:10pm MW 1927 11:45am - 1:10pm MW
1928 8:35am - 10:00am TTh 1928 8:35am - 10:00am TTh
1929 11:45am - 1:10pm TTh 1929 11:45am - 1:10pm TTh
4161 6:00pm - 9:10pm Th 4161 6:00pm - 9:10pm Th
4162 6:00pm - 9:10pm M 4162 6:00pm - 9:10pm M
4163 6:00pm - 9:10pm T 4163 6:00pm - 9:10pm T
4164 6:00pm - 9:10pm W 4164 6:00pm - 9:10pm W
7917 3:10hrs/wk TBA ON LINE

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of classes for directions, or see the “Online Class” section of this schedule for more information.

MATHEMATICS 113 3.00 Units
ELEMENTARY ALGEBRA A
Prerequisite: Mathematics 112
Topics include review of signed numbers, variables, the order of operations; addition and subtraction of polynomials; solve and graph linear equations, solve inequalities; solve systems of equations.
1932 10:10am - 11:35am TTh 1932 10:10am - 11:35am TTh
1933 8:35am - 10:00am TTh 1933 8:35am - 10:00am TTh
4170 6:00pm - 9:10pm Th 4170 6:00pm - 9:10pm Th

40 | P a g e
MATHEMATICS 114

3.00 Units

ELEMENTARY ALGEBRA B

Prerequisite: Mathematics 113

The course covers multiplication and division of polynomials, factoring, rational expressions, radicals, quadratic, rational, and radical equations, and application problems. This course is the second half of Math 113. Math 113 and 114 together are equivalent to Math 115. Credit is allowed in only one of Math 115 or the Math 113/114 combination. Concurrent enrollment in Math 113 and 114 is not permitted.

1936 10:10am - 11:35am MTWTh AH/T E306
1937 8:35am - 10:00am TTh AH/T E306
4176 6:00pm - 9:10pm T AH/T E412

MATHEMATICS 115

5.00 Units

ELEMENTARY ALGEBRA

Prerequisite: Mathematics 112

Topics include signed numbers, variables, the order of operations; addition, subtraction, multiplication, and division of signed numbers and polynomials. Solve linear equations, inequalities, factoring, graphs. Solve word problems, systems of equations, rational equations, radicals and quadratic equations.

1940 7:00am - 8:10am MTWTh AH/T E413
1941 7:00am - 8:10am MTWTh AH/T E410
1942 8:35am - 9:45am MTWTh AH/T E410
1943 8:35am - 9:45am MTWTh AH/T E413
1945 10:10am - 11:20am MTWTh AH/T E410
1946 11:45am - 12:55pm MTWTh AH/T E412
1947 10:10am - 11:20am MTWTh AH/T E412

This is a paired class and must be taken with Math 125, section #1964, which meets MTWTh from 11:45 a.m. - 12:55 p.m. To add this class please contact the instructor, Parul Maheta-Wells at SHUKLAP@LATTC.EDU

or call (213) 763-7314. ENROLLMENT BY ADD PERMIT ONLY.

1945 8:00am - 1:20pm SAT AH/T E306
1949 2:00pm - 4:35pm MW AH/T E306
1950 2:00pm - 4:35pm TTh AH/T E413
4180 6:00pm - 8:35pm MW AH/T E408
4181 6:00pm - 8:35pm TTh AH/T E413
6530 8:35am - 11:05am MTWTh AH/T E413

(8 Week Class - Starts 9/1/2014, Ends 10/23/2014)

Section #6530 (Math 115) & #6532 (Math 125) are back-to-back 8-week classes designed for those students who want to complete their Math 115 & 125 in one semester.

7920 5:25 hrs/wk TBA ON LINE

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

MATHEMATICS 121

3.00 Units

ESSENTIALS OF PLANE GEOMETRY

Prerequisite: Mathematics 115

This course is an introduction to Euclidean geometry and it is equivalent to one year of high school geometry. This course reviews the basic geometric construction, definitions, postulates, theorems and their proofs for triangles, parallel lines and circles.

1957 10:10am - 11:35am MW AH/T E410

MATHEMATICS 125

5.00 Units

INTERMEDIATE ALGEBRA

Prerequisite: Mathematics 114 or Mathematics 115

This course is a study of the properties of real numbers, laws of exponents, radicals, equations & inequalities in linear and quadratic form, system of equations, matrices, graphing in two variables, rational expressions & equations, complex numbers, conic sections & their graphs, exponential and logarithmic functions.

1960 7:00am - 8:10am MTWTh AH/T E415
1961 8:35am - 9:45am MTWTh AH/T E415
1962 10:10am - 11:20am MTWTh AH/T E308
1963 11:45am - 12:55pm MTWTh AH/T E306
1964 11:45am - 12:55pm MTWTh AH/T E221

This is a paired class and must be taken with Math 115, section #1947, which meets MTWTh from 10:10 a.m. - 11:40 a.m. To add this class please contact the instructor, Parul Maheta-Wells at SHUKLAP@LATTC.EDU

or call (213) 763-7314. ENROLLMENT BY ADD PERMIT ONLY.

1965 8:35am - 9:45am MTWTh AH/T E410
4190 6:00pm - 8:35pm MW AH/T E310
4191 6:00pm - 8:35pm TTh AH/T E306
6532 8:35am - 11:05am MTWTh AH/T E413

(8 Week Class - Starts 10/27/2014, Ends 12/19/2014)

Section #6531 (Math 115) & #6534 (Math 125) are back-to-back 8-week classes designed for those students who want to complete their Math 115 & 125 in one semester.

7921 lab 5:25 hrs/wk TBA ON LINE

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

Math 125 is also offered through ITV. Please see schedule ad on page 58.

MATHEMATICS 227

4.00 Units

STATISTICS (UC/CSU)

Prerequisite: Mathematics 125.

Discusses basic concepts and techniques of descriptive and inferential statistics including sampling, probability, statistical distributions, tables and graphs, central limit theory, hypothesis testing, confidence interval estimation, correlation and regression. Most analysis will be done using Excel spreadsheet program.

1978 11:30am - 1:40pm MW AH/T E413
1979 11:45am - 1:55pm TTh AH/T E415
4213 6:00pm - 8:10pm MW AH/T E413
4214 6:00pm - 8:10pm TTh AH/T E308
7922 4:15 hrs/wk TBA ON LINE

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

Math 227 is also offered through ITV. Please see schedule ad on page 58.

MATHEMATICS 240

3.00 Units

TRIGONOMETRY (CSU)

Prerequisite: Mathematics 125; Mathematics 121.

Topics include trigonometric functions, circular functions; trigonometric equations; trigonometric identities; solutions of right and oblique triangles; inverse trigonometric functions, graphing; complex numbers and Demoivre's Theorem; polar coordinates; vectors and applications.

1982 7:00am - 8:25am MW AH/T E310
MATHEMATICS 245 3.00 Units
COLLEGE ALGEBRA (UC:CSU)
Prerequisite: Mathematics 125.
Upon successful completion of this course, students will reinforce the
concept of functions and their graphs important in later courses of
mathematics, science, business, nursing, or computer science.
Polynomial, rational, radical, exponential, and logarithmic equations, both
linear and nonlinear systems, sequences and series, and basics of
probability are covered to allow students to solve a wide variety of real-
life applications.
1985 11:45am - 1:10pm TTh AH/T E413
1986 12:00pm - 3:10pm F AH/T E310

MATHEMATICS 260 5.00 Units
PRECALCULUS (UC:CSU)
Prerequisite: Mathematics 240.
After a brief review of algebra with real and complex numbers, this course
will cover the following topics: polynomial and rational functions with
informal limits; exponential, logarithmic and trigonometric functions;
systems of equations and matrices; sequences, series and the binomial
theorem; conics and polar coordinates.
1990 11:45am - 12:55pm MTWTh AH/T E308

MATHEMATICS 265 5.00 Units
CALCULUS WITH ANALYTIC GEOMETRY I (UC:CSU)
Prerequisite: Mathematics 260.
Introduction to real analysis with analytic geometry; functions, limits and
continuity; derivatives and integrals of algebraic and transcendental
functions; applications of the derivative to graphing and optimization; the
Fundamental Theorem of Calculus and applications of the definite integral.
1992 8:35am - 9:45am MTWTh AH/T E308

MATHEMATICS 266 5.00 Units
CALCULUS WITH ANALYTIC GEOMETRY II (UC:CSU)
Prerequisite: Mathematics 265.
This course includes differentiation and integration of trigonometric,
exponential, logarithmic functions, and hyperbolic functions; conic
sections with translations and rotations, techniques of integration;
improper integrals, infinite series and polar coordinates.
1993 7:00am - 8:10am MTWTh AH/T E412

MATHEMATICS 267 5.00 Units
CALCULUS WITH ANALYTIC GEOMETRY III (UC:CSU)
Prerequisite: Mathematics 266.
This course covers operations with vectors in two and three-dimensional
spaces as well as vector-valued functions with their applications. Topics
include partial derivatives, Lagrange multiplier, Line integrals, multiple
integrals in polar, cylindrical and spherical coordinates, Green's theorem,
Surface integrals, Divergence and Stokes theorems.
1994 8:35am - 9:45am MTWTh AH/T E221

MATHEMATICS 270 3.00 Units
LINEAR ALGEBRA (UC:CSU)
Prerequisite: Mathematics 267.
Introduction to linear algebra and matrix theory. Topics include: linear
systems, matrices and determinants; vector spaces and linear
transformations; eigenvectors and eigenvalues; inner product spaces and
canonical forms.
1996 11:45am - 1:00pm MW AH/T E415

MICROBIOLOGY 5.00 Units
Chair: Miguel Moreno,
Cedar Hall - CH/K-405, (213) 763-7322

MICROBIOLOGY 001 5.00 Units
INTRODUCTORY MICROBIOLOGY (UC:CSU)
Prerequisite: Biology 3; Biology 6; Chemistry 51; Chemistry 101.
This course covers fundamental principles of microbiology and standard
laboratory techniques. It includes systematics, morphology, physiology,
genetics, ecology and evolution of microorganisms. Medical applications
include concepts in microbial growth and control, epidemiology,
immunology and disease. Industrial and environmental applications cover
use of microorganisms to diverse metabolic abilities in the production
of food, chemicals and medicine, including role in biotechnology and
environment.
1645 8:00am - 9:30am MW CH/K408
& lab 9:30am - 12:30pm MW CH/K408

MICROBIOLOGY 020 4.00 Units
GENERAL MICROBIOLOGY (UC:CSU)
Prerequisite: Biology 3; Biology 6; Chemistry 51; Chemistry 101.
This is a comprehensive course for non-nursing and allied health majors.
It covers fundamental principles and laboratory techniques related to
systematics, morphology, physiology, genetics, ecology and evolution of
microorganisms. Medical applications include basic concepts of microbial
growth and control, epidemiology, immune response and a survey of
important human diseases.
1648 8:30am - 11:40am T CH/K408
& lab 8:30am - 11:40am Th CH/K408
1649 8:00am - 11:10am SAT CH/K408
& lab 12:00pm - 3:10pm SAT CH/K408
1658 3:10pm - 6:20pm M CH/K408
& lab 3:10pm - 6:20pm W CH/K408
4060 6:30pm - 9:40pm M CH/K408
& lab 6:30pm - 9:40pm W CH/K408

MICROCOMPUTER TECHNICIAN 3.00 Units
Chair: Eric Chavez,
Cesar Hall - CH/K-325, (213) 763-3782

MICROCOMPUTER TECHNICIAN 077 3.00 Units
CISCO NETWORKING ACADEMY - SEMESTER I
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.
0521 8:00am - 10:10am T CH/K302
& lab 8:00am - 11:10am Th CH/K302
3351 6:00pm - 8:05pm T CH/K302
& lab 6:00pm - 9:10pm Th CH/K302

MICROCOMPUTER TECHNICIAN 078 3.00 Units
CISCO NETWORKING ACADEMY - SEMESTER II
Prerequisite: Microcomputer Technician 77.
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.
0524 7:00am - 9:05am F CH/K302
& lab 9:25am - 12:35pm F CH/K302
FALL 2014 Class Schedule

MICROCOMPUTER TECHNICIAN 079 3.00 Units
CISCO NETWORKING ACADEMY - SEMESTER III
Prerequisite: Microcomputer Technician 78.
This is the third course in a four course sequence that qualifies the student to take the CISCO CERTIFICATION TEST; and covers advanced router set-up and configurations, LAN switching theory and VLNAs, advanced LAN and LAN switched design, Novell IPX, and Threaded case studies.
0527 7:00am - 9:05am F CH/ K307
& lab 9:25am - 12:35pm F CH/ K307

MICROCOMPUTER TECHNICIAN 080 3.00 Units
CISCO NETWORKING ACADEMY - SEMESTER IV
Prerequisite: Microcomputer Technician 79.
This is the fourth course in a four course sequence that qualifies the student to take the CISCO CCNA Certification Exam; and covers advanced WAN theory and design; WAN Technology, PPP, Frame Relay, ISDN; Application of National SCANS in managing a network and network threaded case studies.
0529 7:00am - 9:05am F CH/ K307
& lab 9:25am - 12:35pm F CH/ K307

MICROCOMPUTER TECHNICIAN 160 2.00 Units
IT ESSENTIALS APPLICATION SOFTWARE FUNDAMENTALS (CSU)
Instruction and demonstrations are provided on the application, set-up, configuration and operation of a wide range of computer programs.
0531 7:00am - 7:50am W CH/ K301
& lab 8:00am - 11:10am W CH/ K301

MICROCOMPUTER TECHNICIAN 162 4.00 Units
IT ESSENTIALS NETWORKING PERSONAL COMPUTERS
The course will assist students in designing, selecting, configuring and installing local area networks. System administration and troubleshooting is also covered in detail.
0533 7:00am - 9:05am T CH/ K301
& lab 9:10am - 12:00pm T CH/ K301
& lab 7:00am - 9:55am Th CH/ K301

MICROCOMPUTER TECHNICIAN 164 5.00 Units
IT ESSENTIALS MICROCOMPUTER THEORY AND SERVICING
The course provides servicing techniques for microcomputers and their related peripherals. Hands-on instruction is provided in diagnosing a range of microcomputers malfunctions.
0535 7:00am - 10:20am M CH/ K301
& lab 10:30am - 1:50pm M CH/ K301
& lab 10:10am - 1:20pm Th CH/ K301

MICROCOMPUTER TECHNICIAN 165 3.00 Units
LINUX SURVIVAL COURSE (UC:CSU)
This course provides an introduction to the world of Linux (considered the success story of Open Source Software development). Linux and Open Source fundamentals will be taught as well as configuration and basic troubleshooting.
3364 6:00pm - 8:05pm T CH/ K302
& lab 6:00pm - 9:10pm Th CH/ K302

MICROCOMPUTER TECHNICIAN 166 3.00 Units
CCNA SECURITY (NDA)
This course provides knowledge and skills to administer network devices and applications in a security infrastructure, recognize network vulnerabilities, and detect security threats. This course offers an overview of security challenges and solutions, and installing, monitoring, and troubleshooting Cisco security solutions to secure a network.
3365 7:00am - 9:05am SAT CH/ K305
& lab 9:25am - 12:35pm SAT CH/ K305

MOTORCYCLE REPAIR MECHANIC
Chair: Jess Guerra,
Oak Hall - OH/F-106A, (213) 763-3901

MOTORCYCLE REPAIR MECHANIC 214 4.00 Units
MULTI-CYLINDER ELECTRICAL PRINCIPLES AND REPAIR
Instruction is offered in electrical theory, diagnosis, and repair as applied to the electrical systems of multi-cylinder motorcycles. Shop practices are given on testing procedures and test equipment, and repair.
4502 6:30pm - 7:30pm TTh OH/ F124
& lab 7:30pm - 9:40pm TTh OH/ F124

MOTORCYCLE REPAIR MECHANIC 216 4.00 Units
MULTI-CYLINDER DIAGNOSIS AND OVERHAUL
Multi-cylinder engine principles, operation and overhaul methods are stressed. Shop instruction on diagnosis, disassembly, repair, overhaul and assembly of multi-cylinder engines is offered.
4503 7:30am - 8:30am SAT OH/ F124
& lab 8:30am - 1:40pm SAT OH/ F124

MUSIC
Chair: John Giavan,
Aspen Hall - AH/TE-520, (213) 763-3931

MUSIC 101 3.00 Units
FUNDAMENTALS OF MUSIC (UC:CSU)
This course provides an introduction to Western music theory and composition. The goal is to increase students' enjoyment and appreciation of music by understanding musical terminology, theory, and techniques. By the end of the course, students will be able to write a short musical composition.
1453 8:35am - 10:00am MW OH/ F229
1454 10:10am - 11:35am MW OH/ F229
1455 10:10am - 11:35am TTh OH/ F229
3855 6:00pm - 9:10pm W OH/ F229
3856 6:00pm - 9:10pm M OH/ F229

MUSIC 141 3.00 Units
JAZZ APPRECIATION (UC:CSU)
A survey of twentieth century ragtime, blues, New Orleans and Chicago jazz, stride piano, swing, bebop, cool jazz, hard bop, modal jazz, third stream, avant-garde and free jazz, fusion, and experimental jazz styles. Emphasis is placed on the music and personalities of those artists who made original contributions and whose work influenced that of other important jazz figures.
1456 lab 8:30am - 9:35am SAT MH 308
& 9:45am - 11:50am SAT MH 308

NURSING, REGISTERED
Chair: Rita Weingourt,
Magnolia Hall, MH-165, (213) 763-7182

NURSING, REGISTERED 121 3.00 Units
FUNDAMENTAL OF NURSING (CSU)
This course is an introduction to the philosophy of nursing, nursing history, Maslow™s Hierarchy of needs, and legal and ethical issues in nursing. Concurrent with the theory, the nursing student will have basic client care experience in the skills lab and hospital setting.
7724 8:00am - 10:50am Th MH 207
& lab 7:00am - 1:30pm TW HOSP
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
7725 8:00am - 10:50am Th MH 207
& lab 7:00am - 1:30pm TW HOSP
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
**FALL 2014 Class Schedule**

**NURSING, REGISTERED 122** 3.00 Units

**INTRODUCTION TO MEDICAL SURGICAL NURSING (CSU)**
Prerequisites: REGNRSG 121 & 123.
This course is designed to introduce the student to the concept of medical surgical nursing using Maslow's Hierarchy of Needs as a framework.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am</td>
<td>Th</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:00am</td>
<td>W</td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>or lab</td>
<td>1:00pm</td>
<td>Th</td>
<td>OLYM MC</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 123** 2.00 Units

**NURSING PROCESS**
This course is designed to acquaint the students with the components of Nursing Process: assessment, nursing diagnosis, planning, implementation and evaluation. Students will use Nursing Process in conjunction with Maslow's Hierarchy of Needs to make appropriate nursing judgments.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am</td>
<td>M</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>1:00pm</td>
<td>Th</td>
<td>OLYM MC</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 10/27/2014, Ends 12/19/2014)

**NURSING, REGISTERED 125** 2.00 Units

**NURSING PHARMACOLOGY**
This course focuses on the effects of drug therapy on human body systems. The body systems include: the central nervous system, autonomic nervous, cardiovascular, renal, endocrine, respiratory and gastrointestinal systems. Also included are anti-infective, anti-inflammatory, immune and biological modifiers, chemotherapeutic, hemotological, dermatologic, ophthalmic and otic agents. The students will learn and practice principles of medication administration.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am</td>
<td>M</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>10:00am</td>
<td>Th</td>
<td>MH 207</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 12/19/2014)

**NURSING, REGISTERED 126** 5.00 Units

**MEDICAL-SURGICAL NURSING I (CSU)**
Prerequisite: Registered Nursing 122 and Registered Nursing 124 and Registered Nursing 125 and Registered Nursing 134;
This basic course focuses on the nursing care of the adult client with moderate stress posed by common endocrine, gastrointestinal, cardiac and respiratory disorders. The student will function as a member of the health care team and beginning leadership skills will be presented. Emphasis will be placed on classroom and clinical application of critical thinking and therapeutic nursing interventions in acute, chronic and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am</td>
<td>Th</td>
<td>MH 161</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>HOSP</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 9/1/2014, Ends 12/19/2014)

**NURSING, REGISTERED 127** 5.00 Units

**MEDICAL-SURGICAL NURSING II (CSU)**
Prerequisite: Registered Nursing 126 and Registered Nursing 129 and Registered Nursing 130 and Registered Nursing 134;
This intermediate level medical/surgical nursing course focuses on nursing care of adult clients with high acuity problems within hospital and community settings. Students will use nursing process and Maslow's Hierarchy of needs to plan and implement nursing care. The course builds on the theory and skills presented in RN 126. Leadership role will be expanded.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>MW</td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>HOSP</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 128** 3.00 Units

**MEDICAL-SURGICAL NURSING III (CSU)**
Prerequisite: Registered Nursing 127 and Registered Nursing 131 and Registered Nursing 134;
This course focuses on the nursing care of medical-surgical clients in a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring interventions in chronic, acute, critical care and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>W</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>MH 203</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 129** 2.00 Units

**GERONTOLOGY & COMMUNITY BASED NURSING**
Prerequisite: Registered Nursing 122; Registered Nursing 124; Registered Nursing 125 and Registered Nursing 134;
This course focuses on nursing care of the older adult client with common health and illness needs. Emphasis will be on classroom and clinical application of critical thinking and caring therapeutic nursing interventions in acute, chronic and community health care settings for the older adult population.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00pm</td>
<td>T</td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>HOSP</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 130** 2.00 Units

**MEDICAL-SURGICAL NURSING IV (CSU)**
Prerequisite: Registered Nursing 131 and Registered Nursing 134;
This course focuses on the nursing care of adult clients with high acuity problems within hospital and community settings. Students will use nursing process and Maslow's Hierarchy of needs to plan and implement nursing care. The course builds on the theory and skills presented in RN 126. Leadership role will be expanded.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>MW</td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>HOSP</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 131** 2.00 Units

**MEDICAL-SURGICAL NURSING V (CSU)**
Prerequisite: Registered Nursing 132 and Registered Nursing 133 and Registered Nursing 134;
This course focuses on the nursing care of medical-surgical clients in a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring interventions in chronic, acute, critical care and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>W</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>MH 203</td>
</tr>
</tbody>
</table>

(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 132** 2.00 Units

**MEDICAL-SURGICAL NURSING VI (CSU)**
Prerequisite: Registered Nursing 133 and Registered Nursing 134;
This course focuses on the nursing care of medical-surgical clients in a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring interventions in chronic, acute, critical care and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>W</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>MH 203</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 133** 2.00 Units

**MEDICAL-SURGICAL NURSING VII (CSU)**
Prerequisite: Registered Nursing 134 and Registered Nursing 135;
This course focuses on the nursing care of medical-surgical clients in a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring interventions in chronic, acute, critical care and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>W</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>MH 203</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)

**NURSING, REGISTERED 134** 2.00 Units

**MEDICAL-SURGICAL NURSING VIII (CSU)**
Prerequisite: Registered Nursing 135 and Registered Nursing 136;
This course focuses on the nursing care of medical-surgical clients in a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring interventions in chronic, acute, critical care and community health care settings.

<table>
<thead>
<tr>
<th>Time</th>
<th>Days</th>
<th>Section</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>W</td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>Th</td>
<td>MH 203</td>
</tr>
</tbody>
</table>

(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
### FALL 2014 Class Schedule

**NURSING, REGISTERED 130** 3.00 Units  
**PSYCHIATRIC-MENTAL HEALTH NURSING**  
Prerequisite: Registered Nursing 122 and Registered Nursing 124 and Registered Nursing 125 and Registered Nursing 134;  
This course focuses on nursing care of clients with common psychiatric mental health needs/disorders across the lifespan. Students will apply the nursing process, critical thinking, psychosocial theory and Maslow's Hierarchy of Needs to care of clients in acute, chronic and community-based psychiatric-mental health settings.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7755</td>
<td>9:00am</td>
<td>12:20pm</td>
<td>W</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:05pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7756</td>
<td>9:00am</td>
<td>12:20pm</td>
<td>W</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:05pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7757</td>
<td>9:00am</td>
<td>12:20pm</td>
<td>W</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:05pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 10/27/2014, Ends 12/19/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7758</td>
<td>9:00am</td>
<td>12:20pm</td>
<td>W</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:05pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 10/27/2014, Ends 12/19/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 131** 3.50 Units  
**REPRODUCTIVE NURSING AND WOMENS HEALTH**  
Prerequisite: Registered Nursing 126 and Registered Nursing 129 and Registered Nursing 130 and Registered Nursing 134;  
This course focuses on the nurse as a provider of care, manager of care and a member of the profession in a variety of maternal/newborn and women's health settings.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7745</td>
<td>8:00am</td>
<td>1:05pm</td>
<td>T</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:50pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7747</td>
<td>8:00am</td>
<td>1:05pm</td>
<td>T</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:30pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7748</td>
<td>8:00am</td>
<td>1:05pm</td>
<td>T</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:50pm</td>
<td>Th</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 10/27/2014, Ends 12/19/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 132** 3.50 Units  
**CARE OF CHILDREN AND FAMILY**  
Prerequisite: Registered Nursing 127 and Registered Nursing 131 and Registered Nursing 134;  
This course focuses on the nurse as a provider of care, manager of care and member of the profession in a variety of settings involving children and families. Course content includes physiological, psychological, developmental and socio-cultural needs of children and families. Course content in Pediatric Nursing will be presented within the framework of the wellness/illness continuum of the client and family from birth through adolescence.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7752</td>
<td>8:00am</td>
<td>1:05pm</td>
<td>Th</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>4:10pm</td>
<td>M</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(7 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7753</td>
<td>8:00am</td>
<td>1:05pm</td>
<td>Th</td>
<td></td>
<td>MH 203</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>7:00am</td>
<td>5:10pm</td>
<td>F</td>
<td></td>
<td>HOSP</td>
<td></td>
</tr>
<tr>
<td>(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 133** 3.00 Units  
**NURSING LEADERSHIP & MANAGEMENT**  
Prerequisite: Registered Nursing 128 and Registered Nursing 132 and Registered Nursing 134.  
This course focuses on the transitioning role of the graduating Associate Degree nurse as a provider of care, manager of care and member of the profession. Concepts and issues to be examined include effective leadership styles, advanced therapeutic communication, delegation, conflict resolution, time management, nursing ethics and professional issues. Clinical experience is in the form of a preceptorship.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7775</td>
<td>9:00am</td>
<td>12:00pm</td>
<td>W</td>
<td></td>
<td>MH 207</td>
<td></td>
</tr>
<tr>
<td>&amp; lab</td>
<td>16:25 hrs/wk</td>
<td>TBA</td>
<td>HOSP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(8 Week Class - Starts 10/27/2014, Ends 12/19/2014)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 134** 1.00 Unit  
**NURSING SIMULATION LAB**  
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.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7800 lab</td>
<td>3:25 hrs/wk</td>
<td>TBA</td>
<td>MH 160</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7801 lab</td>
<td>3:35 hrs/wk</td>
<td>TBA</td>
<td>MH 160</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 136** 1.00 Unit  
**NURSING SIMULATION LAB INTERMEDIATE**  
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. The class will be individualized to meet students needs.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7806 lab</td>
<td>3:10 hrs/wk</td>
<td>TBA</td>
<td>MH 164</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7807 lab</td>
<td>3:10 hrs/wk</td>
<td>TBA</td>
<td>MH 164</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NURSING, REGISTERED 137** 1.00 Unit  
**NURSING SIMULATION LAB ADVANCED**  
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. The class will be individualized to meet students needs.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7808 lab</td>
<td>3:10 hrs/wk</td>
<td>TBA</td>
<td>MH 164</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9537 lab</td>
<td>3:10 hrs/wk</td>
<td>TBA</td>
<td>MH 164</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PARALEGAL**  
Chair: Paulette Bailey,  
Cedar Hall - CH/K-225, (213) 763-7269  
**PARALEGAL 010** 3.00 Units  
**INTRODUCTION TO LAW AND LEGAL PROFESSION (CSU)**  
Prerequisite: English 28.  
This introductory course provides an introduction to legal terminology, research of legal problems, law and ethics, and the role of the paralegal as a legal assistant.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0178</td>
<td>10:10am</td>
<td>11:35am</td>
<td>TTh</td>
<td>CH/ K324</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3008</td>
<td>6:00pm</td>
<td>9:10pm</td>
<td>T</td>
<td>CH/ K304</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PARALEGAL 016** 3.00 Units  
**CIVIL AND CRIMINAL EVIDENCE**  
Students will examine the rules of court including deposition and interrogatory preparations and how each affects the admissibility of evidence in a civil or criminal proceeding.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Start Time</th>
<th>End Time</th>
<th>Days</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0181</td>
<td>1:35pm</td>
<td>3:00pm</td>
<td>TTh</td>
<td>CH/ K324</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FALL 2014 Class Schedule

PARALEGAL 017  3.00 Units
LEGAL WRITING
Students will be introduced to traditional sources of law related information. Students will also be introduced to electronically-formatted sources of law related information. Students will utilize both source types in researching legal issues and preparing documents related to their findings.

0182  12:00pm - 1:25pm  TTh  CH/ K304

PARALEGAL 020  3.00 Units
PROBATE PROCEDURES
A comprehensive study of methods for fact gathering, office procedures, and required court work involved in the processing of probates for testate and intestate decedents.

0183  12:00pm - 1:25pm  MW  CH/ K324

PHILOSOPHY
Chair: John Glavan,
Aspen Hall - AH/TE-520, (213) 763-3931

PHILOSOPHY 001  3.00 Units
INTRODUCTION TO PHILOSOPHY (UC:CSU)
This course introduces students to philosophy, covering the topics of ethics, logic and language, metaphysics, theory of knowledge, philosophy of religion, and political philosophy. Some of the questions examined include: 'What is the good life?' 'What is right and wrong, and how do we know?' 'What is knowledge and what are its sources? Is it possible that we know nothing at all?' 'Does God exist?' 'Could we ever know?' What is the mind?' 'What is justice?' 'What is the basic nature of reality?' An emphasis is placed on developing critical reasoning skills, and relating the topics to larger cultural issues and debates.

1457  10:10am - 11:35am  TTh  OH/ F222
1458  8:35am - 10:00am  MW  OH/ F222
1459  10:10am - 11:35am  MW  OH/ F222
1460  8:35am - 10:00am  TTh  OH/ F222
3857  6:00pm - 9:10pm  Th  OH/ F222

PHILOSOPHY 008  3.00 Units
DEDUCTIVE LOGIC (UC:CSU)
This is an introductory course in logic. The student is introduced to the standards and techniques of correct thought with regular practice with short specimens of correct and incorrect reasoning taken from daily life. Consistency, thoroughness, and other aspects of rational thought are fostered.

1461  11:45am - 1:10pm  MW  OH/ F222
1470  11:45am - 1:10pm  TTh  OH/ F222
3858  6:00pm - 9:10pm  T  OH/ F222

Philosophy 1 is also offered through ITV. Please see schedule ad on page 58

PHYSICS
Chair: Miguel Moreno.
Cedar Hall - CH/K-405, (213) 763-7322

PHYSICS 001  4.00 Units
MECHANICS OF SOLIDS (UC:CSU)
Prerequisite: Physics 11 or Physics 12; Corequisite: Mathematics 265; This course covers elements of classical mechanics, including motion in three dimensions, vectors, laws of motion, circular motion, energy and energy transfer, linear momentum, rigid body rotation, angular momentum, static equilibrium and elasticity.

1740  10:10am - 11:45am  TTh  CH/ K420
& lab  11:50am - 3:00pm  Th  CH/ K420

PHYSICS 002  4.00 Units
ELECTRICITY AND MAGNETISM (UC:CSU)
Prerequisite: Physics 1; Mathematics 266.
This course covers the elements of electricity and magnetism, including electric and magnetic fields and circuits and their application as well as inductance. Capacitance, Gauss's law, Ampere's law, Faraday's law, and resonance.

1741  1:00pm - 4:10pm  Th  MH 309
& lab  1:30pm - 4:40pm  T  CH/ K422

PHYSICS 003  4.00 Units
GENERAL PHYSICS I (UC:CSU)
Prerequisite: Physics 11; Mathematics 125; Mathematics 241; This course provides a survey of physics at the pre-calculus level, with emphasis on mechanics, wave motion, fluids, heat and thermodynamics. The laboratory consists of engineering applications and problem solving.

4061  6:30pm - 9:40pm  M  USC
& lab  3:00pm - 6:10pm  W  CH/ K422
First class meeting will be at L.A. Trade-Technical College , Room TE-111. Contact Science Department at (213) 763-7295 for inquiries.

4062  6:30pm - 9:40pm  M  USC
& lab  1:00pm - 4:10pm  F  CH/ K420

PHYSICS 011  4.00 Units
INTRODUCTORY PHYSICS (UC:CSU)
Corequisite: Mathematics 113 or Mathematics 115 or Chemical Technology 113 and Chemical Technology 111. This is a survey course describing the major areas of physics: mechanics, heat, wave motion, electricity and magnetism, electromagnetic radiation and optics. Mathematical solution of simple problems are covered. This course is not open to students receiving credit for Physics 12.

1744  7:00am - 10:10am  T  CH/ K422
& lab  7:00am - 10:10am  Th  CH/ K420
1745  8:35am - 10:00am  MW  CH/ K406
& lab  7:00am - 10:10am  Th  CH/ K422
1748  8:00am - 11:10am  SAT  CH/ K422
& lab  12:00pm - 3:10pm  SAT  CH/ K422
1756 lec  7:00am - 10:10am  F  CH/ K406
& lab  10:20am - 1:30pm  F  CH/ K422
& lab  6:30pm - 9:40pm  T  CH/ K321
& lab  6:30pm - 9:40pm  Th  CH/ K422

PHYSICS 012  3.00 Units
PHYSICS FUNDAMENTALS (UC:CSU)
Corequisite: Mathematics 113 or Mathematics 115 or Chemical Technology 113 and Chemical Technology 111; This is a survey course describing the major areas of physics: mechanics, heat, wave motion, electricity and magnetism, electromagnetic radiation and optics. Mathematical solution of simple problems are covered. This course is not open to students receiving credit for Physics 11.

1757  7:00am - 10:10am  F  CH/ K406
1788  7:00am - 10:10am  T  CH/ K422
4091  6:30pm - 9:40pm  T  CH/ K321

PHYSICS 014  1.00 Unit
PHYSICS FUNDAMENTALS LABORATORY (UC:CSU)
Corequisite: Physics 12;
This course covers laboratory experiments in basic measurements, mechanical, thermal, sound, electrical and optical phenomena at an introductory level.

1747 lab  7:00am - 10:10am  Th  CH/ K422
1758 lab  10:20am - 1:30pm  F  CH/ K422

46 | P a g e  L o s A n g e l e s T r a d e - T e c h n i c a l C o l l e g e  S c h e d u l e o f C l a s s e s  U p d a t e d : M a y 6 , 2 0 1 4
PLUMBING
Chair: William Elarton, Sequoia Hall - SQ/B-200, (213) 763-3701

PLUMBING 026 3.00 Units
PLUMBING LAYOUT AND ESTIMATING I
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.
4746 6:00pm - 9:10pm M SQ/B 200B

PLUMBING 028 3.00 Units
PLUMBING CODE I
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.
4739 6:00pm - 9:10pm T SQ/B 222

PLUMBING 029 3.00 Units
PLUMBING CODE II
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.
4740 6:00pm - 9:10pm Th SQ/B 222

PLUMBING 031 3.00 Units
BACKFLOW PREVENTION DEVICES
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, County Health Department, and Municipal codes; Water Purveyor rules and regulations are also 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.
4744 6:00pm - 6:40pm TTh SQ/B 200B & lab 6:40pm - 9:10pm TTh SQ/B 200

PLUMBING 111 3.00 Units
INTRODUCTION TO PLUMBING
This course surveys the history of the Plumbing Industry; Highlights occupational information, Evokes 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.
8163 7:00am - 7:30am TTh SQ/B 352 & lab 9:15am - 12:25pm TTh SQ/B 252

PLUMBING 112 3.00 Units
FUNDAMENTALS OF PLUMBING
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).
4745 6:00pm - 9:10pm M SQ/B 250 8164 7:40am - 9:05am TTh SQ/B 352

PLUMBING 113 6.00 Units
BASIC PLUMBING PRINCIPLES AND PRACTICES
This course introduces fundamentals of plumbing principals and practices. Topics include installation, repair, 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.
8165 7:00am - 8:05am MWF SQ/B 352 & lab 8:05am - 11:05am MWF SQ/B 252

PLUMBING 121 3.00 Units
WORKING DRAWINGS AND LAYOUT I
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.
8166 7:00am - 8:25am MW SQ/B 222

PLUMBING 122 3.00 Units
PLUMBING MATHEMATICS AND PROCEDURES II
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.
8167 7:00am - 8:25am TTh SQ/B 222

PLUMBING 123 6.00 Units
PLUMBING PRACTICES AND INSTALLATION
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.
8168 8:35am - 9:20am MW SQ/B 222 & lab 8:35am - 11:40am TTh SQ/B 200 & lab 7:00am - 10:35am F SQ/B 200 & lab 9:20am - 11:40am MW SQ/B 200

PLUMBING 131 3.00 Units
WORKING DRAWING II
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.
8169 7:00am - 8:25am TTh SQ/B 200B

PLUMBING 132 3.00 Units
PLUMBING CALCULATIONS AND PROCEDURES II
Instruction is given in layout procedures involving applied calculations concerning the plumbing trades. Instruction is also given in layout and design criteria with hands on laboratory procedures.
8170 8:25am - 8:55am TTh SQ/B 200 & lab 8:55am - 12:05pm TTh SQ/B 200
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.

4320 lab 5:00pm - 9:10pm TTh 3.00 Units POLE YARD
& lec 9:10pm - 10:00pm TTh 3.00 Units POLE YARD
8320 7:00am - 8:10am MTWThF 3.00 Units POLE YARD
& lab 8:10am - 2:20pm MTWThF 3.00 Units POLE YARD

FALL 2014 Class Schedule

PLUMBING 133 6.00 Units
INSTALLATION AND PLUMBING FIXTURES
This course covers fabrication, erection of piping, layout methods, process piping, blueprint installations and testing of plumbing fixtures and appliances.
8171 7:00am - 8:05am MWF SQ/B 200B & lec 8:05am - 11:05am MWF SQ/B200

PLUMBING 941 4.00 Units
COORDERATIVE EDUCATION - PLUMBING
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.
9160 4:25 hrs/wk TBA CY/D236

POLITICAL SCIENCE
Chair: Alicia Rodriguez-Estrada,
Aspen Hall - AH/TE-516, (213) 763-3938

POLITICAL SCIENCE 001 3.00 Units
THE GOVERNMENT OF THE UNITED STATES (UC:CSU)
Advisory: English 28;
Political Science 1 is an introductory course in the principles, institutions and policy processes of the American Political System and an examination of major tenets in Federalism, Representative Government and the scope of the Executive, Legislative and Judicial powers. It offers an overview of local, state and national government.
1030 8:35am - 10:00am MW AH/T E312
1031 10:10am - 11:35am MW AH/T E212
1032 11:45am - 1:10pm MW OH/F223
1033 8:35am - 10:00am TTh AH/T E312
1035 1:35pm - 3:00pm TTh AH/T E323
3630 6:00pm - 9:10pm T AH/T E301
3632 6:00pm - 9:10pm Th AH/T E301
7972 3:25 hrs/wk TBA ON LINE

POLITICAL SCIENCE 002 3.00 Units
MODERN WORLD GOVERNMENTS (UC:CSU)
Advisory: English 28.
This course will explore a selected variety of major nation-states to develop a comparative overview of political philosophies, constitutions, political processes, systems and institutions. Emphasis is placed on geographic, cultural, historic, economic, and demographic factors that contribute to differences in the development and establishment of nations.
1036 10:10am - 11:35am TTh AH/T E312

POWER LINE MECH TRNE
Chair: William Elarton,
Sequoia Hall - SQ/B-122, (213) 763-3701

POWER LINE MECH TRNE 601 15.00 Units
POWER LINE MECHNICA - TRNAEE (600 HOURS)
Prerequisite: Electrical Construction and Maintenance 119 or Electrical Construction and Maintenance 173 or Electrical Construction and Maintenance 1 and Building Construction Techniques 4 or Electrical Construction and Maintenance 116;

The purpose of this course is to provide an overview or introduction into the field of Process Operations within the Chemical Process Industries, such as the oil refinery and wastewater industries. Students will be introduced to the roles and responsibilities of Process Technicians, the environment in which they work, and the equipment and systems in which they operate.
1646 12:30pm - 3:40pm F CH/K424
4085 6:00pm - 9:10pm W CH/K424

PROCESS PLANT TECHNOLOGY
Chair: Miguel Moreno,
Cedar Hall - CH/K-405, (213) 763-7322

PROCESS PLANT TECHNOLOGY 100 3.00 Units
INTRODUCTION TO INDUSTRIAL PROCESS (CSU)
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, pipe fitting, steam traps, valves, pumps compressors, steam turbines, electric motors, furnaces, heat exchangers, cooling towers, storage tanks, distillation towers reactors and process instrumentation.
1647 6:30am - 8:30am W AH/T E111
& lab 10:20am - 1:25pm W CH/K424
4086 5:00pm - 7:00pm Th CH/K424
& lab 7:00pm - 10:00pm Th CH/K424

PROCESS PLANT TECHNOLOGY 104 3.00 Units
INTRODUCTION TO PROCESS PLANT SAFETY
This course provides an introduction to the field of environmental, safety, and health within the chemical laboratory and process industry. Students will be introduced to various types of laboratory and plant safety techniques and hazards. In addition an overview of safety and environmental systems and equipment, and state and federal regulations under which laboratory testing, plant processes, bio and chemical manufacturing are governed.
1644 lab 6:30am - 8:30am M AH/T E111
& lec 11:40am - 12:45pm M AH/T E111

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the "Online Class" section of this schedule for more information.
This course examines the interaction of physical, psychological, and social factors and their impact on human development and behavior from conception to death.

1046 10:10am - 11:35am MW AH/T E213
1047 10:10am - 11:35am TTh AH/T E213
REAL ESTATE 003 3.00 Units
REAL ESTATE PRACTICES (CSU) 5.00 Units
This course covers office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. This course also provides students necessary information and materials a real estate agent utilizes in the day-to-day operations of a real estate business.

3014 6:00pm - 9:10pm  T  CH/ K210

REAL ESTATE 007 3.00 Units
REAL ESTATE FINANCE I (CSU) 8.00 Units
This course provides and explains the real estate lending process in detail from the initial loan application to the closing of the transaction. It provides a practical, step-by-step guide to the most popular real estate financing programs available in the country today. Subjects include: the loan application process, loan underwriting standards, conventional, FHA, and VA loans, seller financing, fair lending practices, and predatory lending.

3015 6:00pm - 9:10pm  W  CH/ K322

REFRIGERATION & AIR CONDITIONING MECHANICS
Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 100 9.00 Units
AIR CONDITIONING PROJECT MANAGEMENT
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.

4841 6:00pm - 9:10pm  W  SQ/ B232

REFRIGERATION & AIR CONDITIONING 9.00 Units
MECHANICS 101
AIR CONDITIONING AND REFRIGERATION PRINCIPLES AND PRACTICES-FIRST SEMESTER
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.

8300 7:00am - 10:10am  M  SQ/ B250
& lab 7:00am - 12:05pm  T/W/F  SQ/ B250

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 105
SOLAR WATER & POOL HEATING SYSTEM PRINCIPLES
This is an introductory lecture course on Solar Thermal. The need for renewable energies, along with planning and installing solar thermal systems will be covered. The solar heating of swimming pools, domestic hot water, and building air will be emphasized.

8302 8:00am - 11:10am  SAT  SQ/ B232

REFRIGERATION & AIR CONDITIONING 2.00 Units
MECHANICS 110
SOLAR WATER & POOL HEATING SYSTEM PRACTICES
This course is designed for students interested in a career in the solar thermal industry. The fundamental practices and functions of the solar thermal industry will be introduced. This course covers the skills and practices for planning, installation, and maintenance of all the necessary components for a solar thermal water systems.

4618 lab 11:30am - 5:40pm  SAT  SQ/ B204

REFRIGERATION & AIR CONDITIONING 1.00 Unit
MECHANICS 123
PIPE AND TUBE JOINING PROCESSES
This course assesses assembly of components into operating systems using techniques employed by the industry.

8304 lab 7:00am - 12:05pm  MW  SQ/ B237

REFRIGERATION & AIR CONDITIONING 5.00 Units
MECHANICS 124
REFRIGERATION ELECTRICAL CIRCUITS AND CONTROLS
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.

8305 lab 7:00am - 12:05pm  T/TH  SQ/ B237

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 125
REFRIGERATION SYSTEM COMPONENTS
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.

8306 7:00am - 10:10am  F  SQ/ B233

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 133
REFRIGERATION SERVICE PROCEDURES I
Prerequisite: Refrigeration and A/C Mechanics 123; and Refrigeration and A/C Mechanics 124; and Refrigeration and A/C Mechanics 125 ; Corequisite: Refrigeration and Air Conditioning Mechanics 134; Refrigeration and A/C Mechanics 135; Air Conditioning Mechanics 136; This course involves servicing procedures applied to commercial and domestic refrigeration systems including restaurants, supermarkets and industrial process cooling. Students are required to inspect and analyze coolers, freezers and ice makers.

8308 lab 7:00am - 12:05pm  MW  SQ/ B232

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 134
SERVICE FOR COMMERCIAL REFRIGERATION
Prerequisite: Refrigeration and A/C Mechanics 123; Refrigeration and A/C Mechanics 124; Refrigeration and A/C Mechanics 125 ; Corequisite: Refrigeration and Air Conditioning Mechanics 133; Refrigeration and Air Conditioning Mechanics 135; This course focuses on troubleshooting procedures in diagnosing and repairing malfunctions in domestic and commercial refrigeration systems. The lab work emphasizes the analyzing and repairing of mechanical and electrical components, with the proper use of tools and test equipment.

8309 lab 7:00am - 12:05pm  T/TH  SQ/ B232

REFRIGERATION & AIR CONDITIONING 3.00 Units
MECHANICS 135
AIR CONDITIONING AND REFRIGERATION
Prerequisite: Refrigeration and A/C Mechanics 123; Refrigeration and A/C Mechanics 124; Refrigeration and A/C Mechanics 125 ; Corequisite: Refrigeration and Air Conditioning Mechanics 133; Refrigeration and Air Conditioning Mechanics 134; This course focuses on refrigeration principles including theory of heat, automatic controls, electric motors, and commercial refrigeration. This course gives an in depth look at the refrigeration cycle and refrigeration components. This course discusses thermodynamics, including the pressure temperature chart, latent heat, and system efficiency.

8310 7:00am - 10:10am  F  SQ/ B221
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ref</strong>. <strong>Recovery &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 141</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Applied Refrigeration and A/C Conditioning Principles</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course focuses on Chemistry as applied to the HVAC and R industry. Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>covered include Hydronics, heating and cooling load calculations, control wiring,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>introduction to the Uniform Mechanical Code, pneumatic controls, troubleshooting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>approaches, and employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8311 7:00am - 10:10am</td>
<td>F</td>
<td>SQ/ B203</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 143</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigeration Servicing Procedures II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Refrigeration and A/C Mechanics 133; and Refrigeration and A/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanics 134; and Refrigeration and A/C Mechanics 135; Corequisite: Refrigeration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and Air Conditioning Mechanics 141; and Refrigeration and Air Conditioning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanics 143; This is a study on diagnosis and repair of refrigeration, air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>conditioning, and gas heating systems with emphasis on the correct</td>
<td></td>
<td></td>
</tr>
<tr>
<td>application of electrical theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8312 lab 7:00am - 12:05pm</td>
<td>MW</td>
<td>SQ/ B204</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 145</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air Conditioning and Refrigeration Mechanics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite: Refrigeration and A/C Mechanics 133; and Refrigeration and A/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanics 134; and Refrigeration and A/C Mechanics 135; Corequisite: Refrigeration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and Air Conditioning Mechanics 141; and Refrigeration and Air Conditioning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanics 143; This is a study on diagnosis and repair of refrigeration, air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>conditioning, and gas heating systems with emphasis on the correct</td>
<td></td>
<td></td>
</tr>
<tr>
<td>application of electrical theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8313 lab 7:00am - 12:05pm</td>
<td>TTh</td>
<td>SQ/ B204</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 160</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigeration System Principles and Practices</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students learn the fundamental refrigeration system principles, including</td>
<td></td>
<td></td>
</tr>
<tr>
<td>system components refrigerants, basic electricity, motors, controls, and test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>equipment in domestic and commercial systems. Students get an</td>
<td></td>
<td></td>
</tr>
<tr>
<td>introduction to air conditioning with an emphasis on the refrigeration cycle, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>appropriate temperatures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4784 8:00am - 10:30am</td>
<td>SAT</td>
<td>SQ/ B233</td>
</tr>
<tr>
<td>&amp; lab 10:30am - 1:40pm</td>
<td>SAT</td>
<td>SQ/ B233</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 161</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air Conditioning System Principles and Practices</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This is a study of human comfort, psychometrics and heat loads. Air distribution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and duct sizing, air conditioning equipment, test instruments and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>measurements and servicing are explored</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4767 6:00pm - 7:10pm</td>
<td>MW</td>
<td>SQ/ B203</td>
</tr>
<tr>
<td>&amp; lab 7:10pm - 9:40pm</td>
<td>MW</td>
<td>SQ/ B204</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 162</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Piping Principles and Practices</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instruction is given on refrigerant tubing and fittings, water piping and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fittings, pipe sizing, soft soldering, silver brazing and schematic drawings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4774 6:00pm - 7:10pm</td>
<td>TTh</td>
<td>SQ/ B233</td>
</tr>
<tr>
<td>&amp; lab 7:10pm - 9:40pm</td>
<td>TTh</td>
<td>SQ/ B237</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 164</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gas Heating Systems (CSU)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course will provide the necessary skills needed for proper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>installation, servicing and troubleshooting of natural gas furnaces. Topics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>include principles of gas combustion, gas ignition, controls, installation,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and ventilation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4759 6:00pm - 6:45pm</td>
<td>MW</td>
<td>SQ/ B232</td>
</tr>
<tr>
<td>&amp; lab 6:45pm - 9:40pm</td>
<td>MW</td>
<td>SQ/ B221</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 166</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water Towers, Evaporative Condensers and Chemical Treatment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course will focus on the fundamentals of water towers and evaporative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>condensers used to obtain high efficiency performance of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>refrigeration and air conditioning systems. Students will learn how to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>select the proper size depending on local humidity and desired operating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>conditions, proper maintenance, and additves and procedures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and techniques available to the technician</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4775 6:00pm - 9:00pm</td>
<td>F</td>
<td>OH/ F214</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 188</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Servicing II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topics covered in this course include: electrical diagrams for testing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>control circuits; the total electrical system and protection devices on</td>
<td></td>
<td></td>
</tr>
<tr>
<td>package units; analysis of failure and compressor motor burnout cleanup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>procedures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4757 6:00pm - 9:10pm</td>
<td>Th</td>
<td>SQ/ B233</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 199</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical Code I - HVACR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>An introduction to the California Mechanical Code for the installation and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>maintenance of heating, ventilating, cooling, and refrigeration systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8000 10:20am - 1:30pm</td>
<td>F</td>
<td>SQ/ B203</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 202</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigeration Fundamentals (CSU)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course covers applied thermodynamics, types of energy, gas laws, sensible</td>
<td></td>
<td></td>
</tr>
<tr>
<td>and latent heat transfer.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4752 6:00pm - 9:10pm</td>
<td>W</td>
<td>SQ/ B233</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 203</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Compression Systems of Refrigeration (CSU)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instruction is given in the vapor cycle of refrigeration systems, including the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>study of refrigerants and their behavior in the system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4753 6:00pm - 9:10pm</td>
<td>W</td>
<td>SQ/ B250</td>
</tr>
<tr>
<td><strong>Refrigeration &amp; A/C Conditioning</strong></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanics 204</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Functions and Comprssion System Components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course covers the technical aspects of all major refrigeration system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>components. Topics covered include the principles of operation of various</td>
<td></td>
<td></td>
</tr>
<tr>
<td>types of compressors, refrigerant flow controls, and system design.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4754 6:00pm - 9:10pm</td>
<td>Th</td>
<td>SQ/ B250</td>
</tr>
</tbody>
</table>
### FALL 2014 Class Schedule

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REFRIGERATION &amp; AIR CONDITIONING 206</strong></td>
<td>4.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>REFRIGERATION &amp; AIR CONDITIONING 207</strong></td>
<td>4.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>MECHANICS 250</strong></td>
<td>3.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>INDOOR AIR QUALITY</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>COOPERATIVE EDUCATION-REFRIGERATION &amp; AIR CONDITIONING MECH</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>SIGN GRAPHICS 101</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>SIGN GRAPHICS 102</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>SIGN GRAPHICS 103</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>SIGN GRAPHICS 104</strong></td>
<td>10.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
<tr>
<td><strong>SIGN GRAPHICS 203</strong></td>
<td>2.00</td>
<td>TBA</td>
<td>8:00am</td>
<td>TBA</td>
</tr>
</tbody>
</table>

---

**REFRIGERATION & AIR CONDITIONING (CSU)**
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.

**COOPERATIVE EDUCATION**
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!

**INDIVIDUAL LETTERING**
Prerequisite: Sign Graphics 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.

**EXTERIOR DISPLAY SIGNS**
Prerequisite: Sign Graphics 103;
This course 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.

**WINDOW SIGNS**
Prerequisite: Sign Graphics 104;
This course provides an introduction to the screen printing trade. Students 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.

---

**SIGN GRAPHICS**
Chair: Carole Anderson, Cypress Hall - CY/D-222, (213) 763-3642

---

**INDOOR AIR QUALITY**
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.

**EPA SECTION 608 CERTIFICATION**
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!

---

**COOPERATIVE EDUCATION-REFRIGERATION & AIR CONDITIONING MECH**
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.

---

**SIGN GRAPHICS 203**
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.

---

**INDIVIDUAL LETTERING**
Prerequisite: Sign Graphics 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.

**EXTERIOR DISPLAY SIGNS**
Prerequisite: Sign Graphics 103;
This course 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.

**WINDOW SIGNS**
Prerequisite: Sign Graphics 104;
This course provides an introduction to the screen printing trade. Students 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.

---

**INDOOR AIR QUALITY**
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.

**EPA SECTION 608 CERTIFICATION**
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!

---

**COOPERATIVE EDUCATION-REFRIGERATION & AIR CONDITIONING MECH**
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.

---

**SIGN GRAPHICS 203**
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.

---

**INDIVIDUAL LETTERING**
Prerequisite: Sign Graphics 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.

**EXTERIOR DISPLAY SIGNS**
Prerequisite: Sign Graphics 103;
This course 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.

**WINDOW SIGNS**
Prerequisite: Sign Graphics 104;
This course provides 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.

---

**INDOOR AIR QUALITY**
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.

**EPA SECTION 608 CERTIFICATION**
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!

---

**COOPERATIVE EDUCATION-REFRIGERATION & AIR CONDITIONING MECH**
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.

---

**SIGN GRAPHICS 203**
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.

---

**INDIVIDUAL LETTERING**
Prerequisite: Sign Graphics 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.

**EXTERIOR DISPLAY SIGNS**
Prerequisite: Sign Graphics 103;
This course 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.

**WINDOW SIGNS**
Prerequisite: Sign Graphics 104;
This course provides 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.
FALL 2014 Class Schedule

SIGN GRAPHICS 204 2.00 Units
SILK SCREEN PROCESSING II
Prerequisite: Sign Graphics 203.
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.
7223 9:00am - 10:00am SAT SA/ H230
& lec 10:00am - 3:45pm SAT SA/ H230

SIGN GRAPHICS 211 2.00 Units
AUTOMOTIVE GRAPHICS
This course will teach the fundamentals of computer software in producing vinyl graphics, patterns, and stencils for application of vehicle graphics. Students will design and cut various materials for the production of painted and vinyl graphics on vehicles. They will learn various application techniques and the use of paints including basic lettering and design for vehicle appropriate graphics.
7226 7:00am - 8:00am M SA/ H204
& lab 8:00am - 10:25am M SA/ H204

SOCIOLOGY
Chair: Alicia Rodriguez-Estrada,
Aspen Hall - AH/TE-516, (213) 763-3938

SOCIOLOGY 001 3.00 Units
INTRODUCTION TO SOCIOLOGY (UC:CSU)
This course is designed to acquaint students with the major principles of sociology as they are applied to contemporary social issues. With the use of several theoretical perspectives it examines social structures within American society and other cultures from macro and micro perspectives. There are extensive references to contemporary research findings on social structure, group dynamics, social stratification, and social institutions.
1049 10:10am - 11:35am MW AH/T E323
1050 11:45am - 1:10pm MW AH/T E323
1051 10:10am - 11:35am TTh AH/T E323
1052 11:45am - 1:10pm TTh AH/T E323
3661 6:00pm - 9:10pm Th AH/T E323
7875 3:25 hrs/wk TBA ON LINE

Please visit the online program homepage at http://moodle.lattc.edu prior to the start of class for directions, or see the “Online Class” section of this schedule for more information.

SOLID WASTE MANAGEMENT TECHNOLOGY
Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

SOLID WASTE MANAGEMENT TECHNOLOGY 101 3.00 Units
INTRODUCTION TO SOLID WASTE MANAGEMENT
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.
4178 6:00pm - 9:10pm M OH/ F223

SPANISH
Chair: John Giavan,
Aspen Hall - AH/TE-520, (213) 763-3931

SPANISH 001 5.00 Units
ELEMENTARY SPANISH I (UC:CSU)
This course stresses the fundamentals of pronunciation and grammar, practical vocabulary, useful phrases, and the ability to understand, read, write and speak simple Spanish. It includes basic facts on geography, customs, and culture of Spain and Latin America.
1462  9:00am - 2:20pm SAT OH/ F224
1463  8:35am - 9:45am MTWTh AH/T E212
1464  8:35am - 9:45am MTWTh OH/ F227
1465  10:10am - 11:20am MTWTh OH/ F227
3859  6:45pm - 9:15pm TTh OH/ F227

SPANISH 002 5.00 Units
ELEMENTARY SPANISH II (UC:CSU)
Prerequisite: Spanish 1; Spanish 22;
This course is a continuation of Spanish 1. It stresses further aspects of pronunciation and grammar, practical vocabulary, useful phrases, and the ability to understand, read, write and speak Spanish. It includes further facts on geography, customs, and culture of Spain and Latin America.
1466  12:00pm - 1:10pm MTWTh OH/ F227

SPANISH 035 5.00 Units
SPANISH FOR SPANISH SPEAKERS I (UC:CSU)
This course addresses the needs of the native Spanish speaking student.
It focuses on the acquisition of a solid grammar base, vocabulary enrichment, spelling, reading, and writing skills. Also included is a study of linguistic variants in the Spanish language and of Spanish and Latin American literature, culture, and civilization.
1467  10:00am - 3:20pm SAT OH/ F227
1468  8:35am - 9:45am MTWTh OH/ F224
3826  6:45pm - 9:15pm MW OH/ F227

SUPERVISED LEARNING ASSISTANCE
Chair: Christina Anketell,
Mariposa Hall - MA-2xx, (213) 763-3741

SUPERVISED LEARNING ASSISTANCE 001
SUPERVISED LEARNING ASSISTANCE (NDA) (RPT 9)
8951  20:00 hrs/wk TBA MA 109B
T A I L O R I N G  2 5 2  2.00 Units  
TAILORING TECHNIQUES III 
Prerequisite: Tailing 227 or Tailing 251. 
Students receive training in tailored coats, men's style shirts. Instruction 
will include stylized seams, cold weather techniques. 
4317 lab  6:00pm - 9:10pm  
MW  CY/ D331 

T A I L O R I N G  2 5 3  2.00 Units  
TAILORING TECHNIQUES IV 
Prerequisite: Tailing 228 or Tailing 252. 
Students will receive instruction on man's style tailored jacket including 
inner construction using traditional tailoring techniques. 
4318 lab  6:00pm - 9:10pm  
MW  CY/ D331 

T A I L O R I N G  2 5 5  2.00 Units  
MEN'S PATTERN DRAFTING I 
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. 
7228 lab  8:35am - 3:05pm  
SAT  CY/ D230 

T A I L O R I N G  2 5 6  2.00 Units  
MEN'S PATTERN DRAFTING II 
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. 
7229 lab  8:35am - 3:05pm  
SAT  CY/ D230 

T H E A T E R  1 0 0  3.00 Units  
INTRODUCTION TO THE THEATER (UC-CSU) 
This course surveys the history of theater from the ancient Greek to 
modern times. Stage vocabulary, production crafts and acting techniques 
are introduced. Students will analyze how theater relates to motion 
pictures, television, and radio in contemporary American life, as well as 
compare themes in literature, compare and contrast adaptations of 
famous plays to their original written form and apply critical analysis to 
live dramatic productions. 
149  11:45am - 1:10pm  
TTh  MH 308 
3939  6:00pm - 9:10pm  
M  MH 305 

V I S U A L  C O M M U N I C A T I O N S  2.00 Units  
GRAPHIC DESIGN I (CSU) 
An introduction to the profession of Graphic Design. Projects will stress 
design basics, typography, the computer as a design tool, the basics of 
visual problem solving, and art production and advertising. 
7253  7:00am - 7:45am  
TW  SA/ H238 
& lab  7:45am - 12:25pm  
TW  SA/ H238 
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014)
<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| VISUAL COMMUNICATIONS 103 | 2.00 | BASIC COMPUTER SYSTEMS (CSU)  
Introduction to using the Macintosh computer for graphic design. Students will learn basic computer functionality, with an emphasis on an understanding of the operating systems, configuration for use with graphic applications, file management and working in a network environment.  
7254 7:00am - 7:45am ThF SA/H238  
& lab 7:45am - 12:25pm ThF SA/H238  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 105 | 2.00 | DIGITAL PREPRESS I (CSU)  
Beginning level course in the preparation of art for the reproduction process, and its application to the industries of Advertising and Graphic Design. Students will study the history of graphic design, typesetting, paste-up to digital prepress (in black and white and two color reproduction) as an emphasized focus within the course.  
7255 7:00am - 7:45am TW SA/H238  
& lab 7:45am - 12:25pm TW SA/H238  
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014) |
| VISUAL COMMUNICATIONS 106 | 2.00 | DRAWING I (CSU)  
Introduction to concepts of basic observational drawing, perspective and the principles of light and shade. Black and white and color mediums will be utilized.  
7256 7:00am - 7:45am ThF SA/H220  
& lab 7:45am - 12:25pm ThF SA/H220  
(7 Week Class - Starts 10/27/2014, Ends 12/21/2014) |
| VISUAL COMMUNICATIONS 112 | 2.00 | DIGITAL PREPRESS II (CSU)  
Intermediate level course where students design and produce projects that utilize the Macintosh computer. Line art projects in single color and two colors are created in Adobe Illustrator. Technical processes for reproduction will be covered with instruction in the use of QuarkXPress.  
7258 7:00am - 7:45am TW SA/H209  
& lab 7:45am - 12:25pm TW SA/H209  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 114 | 2.00 | DIGITAL TYPESETTING (CSU)  
Introduction of the principles of computer typesetting as a career. The course will cover the standards and guidelines used to set type for ads, brochures, and stationary. Proofreading and setting copy in multiple computer programs will be stressed.  
7259 7:00am - 7:45am ThF SA/H208  
& lab 7:45am - 12:25pm ThF SA/H208  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 115 | 2.00 | GRAPHIC DESIGN II (CSU)  
Intermediate level course that will stress Graphic Design as a profession. Problems will emphasize the development of creativity, typography as communication, art production and the computer, and methods for developing brochures, ads and web pages.  
7260 7:00am - 7:45am ThF SA/H208  
& lab 7:45am - 12:25pm ThF SA/H208  
(7 Week Class - Starts 10/27/2014, Ends 12/21/2014) |
| VISUAL COMMUNICATIONS 116 | 2.00 | THREE-DIMENSIONAL PACKAGE DESIGN (CSU)  
Introduction to the development of advertising concepts for magazines, television, and the internet. Use research, brainstorming and standard advertising methodology to plan, design and produce an advertising campaign.  
7261 7:00am - 7:45am TW SA/H208  
& lab 7:45am - 12:25pm TW SA/H208  
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014) |
| VISUAL COMMUNICATIONS 118 | 2.00 | DIGITAL DRAWING (CSU)  
Advanced level course in the use of the relevant industry pagination software. Students will learn how to work seamlessly with other applications. Students will learn to set up and construct page layouts and how to use software applications as design tools. Students will learn how to specify type, set type for columns, work with spread lines and long copy documents using fonts and photos. In addition, students will create spot illustration drawings and graphics.  
7263 12:40pm - 3:05pm W SA/H238  
7264 7:00am - 7:45am SA/H208  
& lab 7:45am - 12:25pm TW SA/H208  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 120 | 2.00 | DIGITAL PAGE LAYOUT (CSU)  
Prerequisite: Visual Communications 103;  
An advanced drawing course in which indoor and outdoor photographic drawing concepts are linked with magazine and book publishing for the creation of cover art and feature article page layouts.  
7265 7:00am - 7:45am TW SA/H208  
& lab 7:45am - 12:25pm TW SA/H208  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 124 | 2.00 | COMPUTER ILLUSTRATION I (CSU)  
An advanced level course in computer illustration techniques. It combines the Adobe software applications “Illustrator” and “Photoshop” for the creation of digital illustrations that include drawing, photo manipulations, and typography stylizations for advertising and editorial purposes.  
7266 7:00am - 7:45am ThF SA/H209  
& lab 7:45am - 12:25pm ThF SA/H209  
(8 Week Class - Starts 9/1/2014, Ends 10/24/2014) |
| VISUAL COMMUNICATIONS 126 | 2.00 | PORTFOLIO DEVELOPMENT I (CSU)  
This is a course in the production of a finished portfolio; all course projects will be reviewed for portfolio consideration. Some projects will require reworking. Preparation of 10 completed works with preliminary developmental books culminates in a simulated job interview with Advisory Board members.  
7267 7:00am - 7:45am TW SA/H209  
& lab 7:45am - 12:25pm TW SA/H209  
(8 Week Class - Starts 10/27/2014, Ends 12/21/2014) |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGITAL PREPRESS III (CSU)</td>
<td>An advanced course in digital prepress. Students will utilize photographic images, typography, and original artwork to create printing files for advertising and graphic design. Advanced Macintosh based theories will be covered to include Adobe Illustrator and Photoshop, and QuarkXPress.</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 128</td>
<td>DESIGNING LOGOS AND TRADEMARKS (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 129</td>
<td>DIGITAL PHOTO MANIPULATION (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 130</td>
<td>DRAWING III (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 131</td>
<td>COMPUTER ILLUSTRATION II (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 132</td>
<td>PORTFOLIO DEVELOPMENT II (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>VISUAL COMMUNICATIONS 133</td>
<td>DIGITAL PORTFOLIO PREPARATION (CSU)</td>
<td>2.00</td>
</tr>
<tr>
<td>WASTEWATER TECHNOLOGY</td>
<td>Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701</td>
<td></td>
</tr>
<tr>
<td>WASTEWATER TECHNOLOGY 012</td>
<td>WASTEWATER OPERATIONS I</td>
<td>3.00</td>
</tr>
<tr>
<td>WASTEWATER TECHNOLOGY 017</td>
<td>WASTEWATER OPERATIONS VI</td>
<td>3.00</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC</td>
<td>Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701</td>
<td></td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 100</td>
<td>METAL SCULPTURE I</td>
<td>3.00</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 101</td>
<td>FLUX CORED ARC WELDING</td>
<td>6.00</td>
</tr>
</tbody>
</table>

**FALL 2014 Class Schedule**

**VISUAL COMMUNICATIONS 127**
**DIGITAL PREPRESS III (CSU)**
An advanced course in digital prepress. Students will utilize photographic images, typography, and original artwork to create printing files for advertising and graphic design. Advanced Macintosh based theories will be covered to include Adobe Illustrator and Photoshop, and QuarkXPress.

**VISUAL COMMUNICATIONS 128**
**DESIGNING LOGOS AND TRADEMARKS (CSU)**
Introduction to the principles of trademark design and computer 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.

**VISUAL COMMUNICATIONS 129**
**DIGITAL PHOTO MANIPULATION (CSU)**
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.

**VISUAL COMMUNICATIONS 130**
**DRAWING III (CSU)**
An advanced drawing course in which quick observational drawings are refined in black and white and color mediums. Renderings, or more highly refined tonal work, will be performed in dry and wet mediums from indoor and outdoor locations.

**VISUAL COMMUNICATIONS 131**
**COMPANY ILLUSTRATION II (CSU)**
An advanced course in digital picture-making techniques. It combines the Adobe software applications “Illustrator” and “Photoshop” for the creation of digital illustrations that include drawing, photo manipulations, and typography stylizations for advertising and editorial purposes.

**VISUAL COMMUNICATIONS 132**
**PORTFOLIO DEVELOPMENT II (CSU)**
An advanced course in the production of a finished portfolio. Preparation of 10 completed works with preliminary developmental books culminates in a simulated job interview with Advisory Board members.

**VISUAL COMMUNICATIONS 133**
**DIGITAL PORTFOLIO PREPARATION (CSU)**

---

**WASTEWATER TECHNOLOGY**
Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

**WASTEWATER TECHNOLOGY 012**
**WASTEWATER OPERATIONS I**
This course is a survey and introductory course into wastewater systems for operations and maintenance personnel. Administrative, engineering and laboratory personnel may benefit from this course.

**WASTEWATER TECHNOLOGY 017**
**WASTEWATER OPERATIONS VI**
Public health, the environment, regulations, management/supervision and report writing as practiced in wastewater and water reclamation plants safety are covered.

**WELDING GAS AND ELECTRIC**
Chair: William Elarton, Sequoia Hall - SQ/B-122, (213) 763-3701

**WELDING GAS AND ELECTRIC 100**
**METAL SCULPTURE I**
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.

**WELDING GAS AND ELECTRIC 101**
**FLUX CORED ARC WELDING**
This course covers instructions on the principles, equipment, welding techniques, mode of operations, and safety for flux cored arc welding used for structural steel. The course content follows the FCAW competencies published in American Welding Society Guide for the Training of Welding Personnel: Level I & II, Entry. This course prepares student for the performance portion of the Los Angeles Department of Building and Safety Structural Steel Certified Field Welder Examination.

---

56 | Page  
Los Angeles Trade-Technical College  
Schedule of Classes  
Updated: May 6, 2014
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELDING GAS AND ELECTRIC 124</td>
<td>3.00</td>
<td>BLUEPRINT READING I</td>
<td>This course covers the principles of reading and interpreting basic industrial blueprints as applied to the welding trade.</td>
<td>8221 10:10am - 1:20pm</td>
<td>T</td>
<td>OH/ F150</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 125</td>
<td>3.00</td>
<td>APPLIED MATHEMATICS II</td>
<td>Related mathematical problems in welding in project design and construction using the fundamental principles of algebra.</td>
<td>8222 10:10am - 1:20pm</td>
<td>F</td>
<td>OH/ F150</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 131</td>
<td>6.00</td>
<td>ELECTRIC WELDING II</td>
<td>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.</td>
<td>8223 lab 7:00am - 10:10am &amp; lec 10:10am - 11:45am</td>
<td>M</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 132</td>
<td>3.00</td>
<td>BLUEPRINT READING II</td>
<td>The course covers the principles of lines, view, size, description, print formats, fasteners, and different types of fabrication drawings; review of industrial welding prints.</td>
<td>8224 2:00pm - 3:35pm</td>
<td>TTh</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 133</td>
<td>3.00</td>
<td>WELDING RELATED TECHNICAL INSTRUCTION III</td>
<td>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.</td>
<td>8225 2:00pm - 3:35pm</td>
<td>TTh</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 141</td>
<td>6.00</td>
<td>ELECTRIC WELDING III</td>
<td>Students complete activities in sheet metal welding, cast iron welding, inert gas welding (MIG and TIG) and semi-automatic gas shielded welding.</td>
<td>8240 lab 7:00am - 10:10am &amp; 11:45am - 1:10pm</td>
<td>M</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 142</td>
<td>3.00</td>
<td>INERT GAS WELDING (TIG &amp; MIG)</td>
<td>The course covers principles in welding aluminum, stainless steel, carbon steel and the maintenance and operation of welding equipment.</td>
<td>8241 10:10am - 1:20pm</td>
<td>Th</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 143</td>
<td>3.00</td>
<td>WELDING RELATED TECHNICAL INSTRUCTION IV</td>
<td>The course covers the principles and theory of operating semi-automatic gas shielded welding equipment and the metallurgy of metals.</td>
<td>8242 10:10am - 1:20pm</td>
<td>W</td>
<td>OH/ F151</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 201A</td>
<td>1.00</td>
<td>WELDING-GAS AND ELECTRIC I</td>
<td>Basic manipulative exercises in electric welding using low alloy and mild steel materials in all positions, safety precautions, and fire prevention.</td>
<td>4802 lab 6:00pm - 9:10pm</td>
<td>M</td>
<td>OH/ F156</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 201B</td>
<td>1.00</td>
<td>WELDING-GAS AND ELECTRIC I</td>
<td>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.</td>
<td>4803 lab 6:00pm - 8:10pm &amp; 4804 lab 6:00pm - 9:10pm</td>
<td>M</td>
<td>OH/ F156</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 210</td>
<td>2.00</td>
<td>METAL SCULPTING LABORATORY</td>
<td>Expand beginning welding skills and metal working techniques into an exploration of metal sculpture.</td>
<td>4806 lab 8:00am - 2:30pm</td>
<td>SAT</td>
<td>OH/ F156</td>
</tr>
<tr>
<td>WELDING GAS AND ELECTRIC 941</td>
<td>4.00</td>
<td>COOPERATIVE EDUCATION - WELDING GAS AND ELECTRIC</td>
<td>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.</td>
<td>9256 4:25 hrs/wk</td>
<td>TBA</td>
<td>CY/ D236</td>
</tr>
</tbody>
</table>
FALL 2014 Class Schedule

The Weekend College
A Program of Los Angeles Community College District

8 WEEK CLASSES
Saturdays at Southwest & City Colleges
Sundays at Pierce & Valley Colleges
First college is AM / Second PM

All classes are approved for transfer to the UCs and CSUs and meet graduation requirements at all LACCD Colleges. Transcripts are issued by L.A. Mission College.

Attend only one class meeting at any location. Classes are taught by the same instructor at each campus. All classes use a blended format combining weekend class meetings with video lessons and online activities.

Use the Student Information System to enroll, select ITV as the campus. For questions or assistance with registration call 818/833-3595. Students are advised to speak with a College Counselor when planning their academic program. Financial aid is available for qualified students; fee waivers also apply to these classes.

For classroom locations go to www.lamission.edu/ITV

SUMMER 2014
June 16 – August 3

<table>
<thead>
<tr>
<th>Classes</th>
<th>Section</th>
<th>Saturday Campus</th>
<th>Sunday Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 102</td>
<td>7255</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Economics 1</td>
<td>7256</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>English 101</td>
<td>7257</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>English 102</td>
<td>7258</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Health 11</td>
<td>7259</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>History 11</td>
<td>7260</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Math 125</td>
<td>7261</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Philosophy 1</td>
<td>7262</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Political Science 1</td>
<td>7263</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Psychology 1</td>
<td>7264</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
</tbody>
</table>

Saturday class meetings: June 21 - August 2
Sunday class meetings: June 22 - August 3

Last Day To: ADD classes, June 23, with instructor approval
Drop without incurring fees: June 24
Drop without receiving a "W": June 24

FALL 2014 Session A
September 1 – October 26

<table>
<thead>
<tr>
<th>Classes</th>
<th>Section</th>
<th>Saturday Campus</th>
<th>Sunday Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 101</td>
<td>7267</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Economics 1</td>
<td>7268</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>English 101</td>
<td>7269</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Health 11</td>
<td>7270</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>History 11</td>
<td>7271</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Math 125</td>
<td>7272</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Philosophy 1</td>
<td>7273</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Political Science 1</td>
<td>7274</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Psychology 1</td>
<td>7275</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
</tbody>
</table>

Saturday class meetings: September 6 - October 25
Sunday class meetings: September 7 - October 26

Last Day To: ADD classes, September 9, with instructor approval
Drop without incurring fees: September 10, 2014
Drop without receiving a "W": September 10, 2014

FALL 2014 Session B
October 27 – December 21

<table>
<thead>
<tr>
<th>Classes</th>
<th>Section</th>
<th>Saturday Campus</th>
<th>Sunday Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 102</td>
<td>7276</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>English 101</td>
<td>7277</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>English 102</td>
<td>7278</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Health 11</td>
<td>7279</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>History 12</td>
<td>7280</td>
<td>C/SW</td>
<td>P/V</td>
</tr>
<tr>
<td>Math 227</td>
<td>7281</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Political Science 1</td>
<td>7282</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Psychology 41</td>
<td>7283</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
<tr>
<td>Sociology 1</td>
<td>7284</td>
<td>SW/C</td>
<td>V/P</td>
</tr>
</tbody>
</table>

Saturday class meetings: November 1 - December 20
Sunday class meetings: November 2 - December 21

Last Day To: ADD classes, November 4, with instructor approval
Drop without incurring fees: November 5, 2014
Drop without receiving a "W": November 5, 2014

Website: www.lamission.edu/ITV • Telephone: 818/833-3594 or 800/917-9277
Accuracy Statement:

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

Please refer to the electronic version of the schedule for up-to-date/current schedule information.

www.lattc.edu/pls/trade11/sc.fall