RIVERSIDE CITY COLLEGE

Administrative Officers

Poster Davidoff
Kenneth Brown
Frank Budd
Mrs. Brenda Davis
Nate DeFrancisco
Salvador Duarte
James K. Duncan
Arthur C. Knopf
Lee B. Kraus
Dr. Howard Larsen
Dr. Thoyd O. Latham
John Matulich
Leonard Metcalfe
Mrs. Irmy Tilton
Gordon R. Woolley, Jr.

President and Superintendent
Registrar
Director, Administration of Justice
Director, Nursing
Associate Dean of Student Personnel Services, Support Services
Assistant Dean of Academic Services, Instructional Media, and Grants Officer
Associate Dean of Academic Services, Extended Day and Summer Session
Director, Community Services and Public Information
Assistant Dean of Academic Services, Extended Day and Summer Session
Dean of Academic Services
Associate Dean of Academic Services, Occupational Education
Deputy Superintendent and Dean of Student Personnel Services
Associate Dean of Student Personnel Services, Student Affairs
Director, Cosmetology
Business Manager and Assistant Superintendent

with announcements for 1976-77
# Table of Contents

Inside Front Cover BOARD OF TRUSTEES AND ADMINISTRATIVE OFFICERS

4 COLLEGE CALENDAR

7 THE COLLEGE
   7 Statements of Policies in this Catalog
   7 Nature and Role of the College
   7 Philosophy of the College
   7 Purpose of the College
   9 History and Development
   9 Accreditation
   9 College Memberships
   9 Community Services
   10 Buildings and Facilities

15 GENERAL INFORMATION
   15 College Year
   15 Summer Sessions
   15 Who May Attend
   16 Admission and Registration of Day Students
   20 Requirements for College Transfer
   23 Veterans Education
   23 Program for the Deaf
   24 Enrollment, Extended Day
   26 Associate in Arts Degree
   28 Scholastic Honors at Graduation
   28 Classification of Students
   28 Study List Regulations
   28 Petition for Credit by Examination
   28 Grading System

30 Appeals by Students
31 A Change in Student's Program
31 Auditing
31 Standards of Scholarship: Probation and Dismissal
33 Attendance
33 Change of Address
33 Transcript Requests
33 Concurrent Enrollment

35 STUDENT LIFE
   35 Counseling Center
   35 Student Services
   36 Special Supportive Services
   37 Organizations
   38 The Arts
   39 Publications
   39 Athletics
   39 Student Government
   39 Social Events
   39 Discipline

41 CURRICULAR PATTERNS
   41 Transfer Programs
   58 Occupational Programs

93 COURSE DESCRIPTIONS

245 FACULTY

272 INDEX
## Riverside City College Calendar — 1976-1977

### July

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
</tr>
</tbody>
</table>

### August

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

### September

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### October

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### November

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### December

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### January

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### February

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### March

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### April

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### May

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### June

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Graduation

- Summer Session, 1976: 6/21-7/30 — 1st session
- Summer Session, 1977: 6/20-7/29 — 1st session
- Summer Session registration for students enrolled at RCC during spring semester, 1976
- Summer Session begins
- Last day to drop classes meeting first three weeks
- Legal holiday
- Elect Credit - No Credit
- Last day to drop classes meeting full six weeks or second three weeks
- Regular Summer Session ends
- Licensed Vocational Nursing Summer Session ends

### Program Counseling and Registration

- March 15 (Monday): Day students begin to declare intent to register for fall
- March 29-June 18 (Monday-Friday): Program counseling for continuing day students
- Program counseling for all students (returning and new students. See Admissions Office Bulletin, "Registration, Fall Semester, 1976", for details.)
- September 7-10 (Tuesday-Friday): Late registration (by appointment)
- September 10 (Friday): Registration of high school concurrent enrollment students
- September 10 (Friday): Orientation for all new students

### Fall Semester, 1976

- September 13, 1976 (Monday): Classes begin
- October 4 (Monday): Day students begin to declare intent to register for spring
- October 18-January 21 (Monday-Friday): Spring Semester program counseling for currently enrolled students
- October 22 (Friday): Deadline to drop or withdraw from classes without penalty
- November 6 (Saturday): Begin testing of new students for Spring Semester. (See Schedule of Tests)
STATEMENTS OF POLICIES IN THIS CATALOG

Because of the time lag between the preparation of the college catalog and its distribution, it is not possible to reflect all changes in district policy for 1976-77. Please consult the Admissions Office or other appropriate campus centers for any changes that might have occurred after the publication of this catalogue.

THE NATURE AND ROLE OF THE COLLEGE

Riverside City College is a public community two-year college and thus part of the California state system of higher education. As such, and in keeping with the policies endorsed by both the state legislature and its own Board of Trustees, the college exists to serve members of its community who are high school graduates, or who are more than eighteen years of age and capable of profiting from appropriate instruction, and who diligently seek an education.

The primary purpose of the college is to offer education which will equip the student to live successfully in his society through courses of study which will enlarge his perspective and make him more aware of the possibilities of life and the value of these possibilities, thus fulfilling his potentialities as a person and as a member of the human community.

THE PHILOSOPHY OF THE COLLEGE

Riverside City College is dedicated to providing educational opportunity at minimum cost to the student because of the conviction that the fullest possible development of each individual's abilities is essential to the welfare of the community, the state, and the nation.

Riverside City College is dedicated to the nurture of the free and rational mind — the mind free from unthinking conformity, bias and prejudice — the mind free to create and innovate, to move from mental adolescence to intellectual maturity.

This dedication commits the college to offer opportunities to every student to develop his unique potential and to explore his abilities and talents. It commits the college to present diversified programs and to experiment with instructional methods within the limit of its resources. It commits the college to promote the idea that students pursue education beyond the curriculum, to widening horizons, and throughout their lifetime, and thus it commits the college to provide post secondary opportunities to all, including senior citizens. It commits the college to evaluate continuously the quality of its offerings, the standard of achievement, the effectiveness of its instruction, and the relevance of its programs.

THE PURPOSE OF THE COLLEGE

In view of its nature, its role, and its philosophy, Riverside City College designs its educational programs to meet its purposes, singly...
or in combination:

General education is available everywhere in the college. A person informed through general education about the conceptual schemes of the arts, humanities and sciences, who comprehends the structure of society and who thinks clearly about himself and society will have the tools by which he may function efficiently. Such an individual is encouraged to utilize these tools in developing a conception of and a commitment to a good life involving able and responsible citizenship, moral and humane relationships and appreciation of the democratic processes and the culture which sustain our society. Specifically, the college offers to all of its students, and requires of its graduates, a pattern of courses designed to produce an awareness of self and to provide (1) a basic competence with the English language in its written and spoken form; (2) at least a minimum competence in the language of quantity; (3) a knowledge of American history and government, including a sense of history and its relation to our governmental institutions; (4) regard for health — mental and physical — of his own person and of the community at large; (5) a grasp of the principles of the major divisions of human studies, humanities and science, with some understanding of basic disciplines and methodologies; and (6) knowledge in some depth of one subject area.

Transfer or lower division education — The college provides courses paralleling those of the lower division of the California state colleges and the University of California so that qualified students may transfer to four-year public or private institutions in junior standing with the ability to continue upper division work.

Occupational - Technical education — The college recognizes an obligation to provide specialized programs leading directly to employment or improving the skill and knowledge of those already employed. Such programs are developed to meet the needs of the students and the community, with due regard for limitations on the resources of the college district, and with the assistance of advisory committees from the occupations concerned.

Remedial or foundation education — In view of its open door policy the college recognizes an obligation to provide certain foundation courses in the use of verbal and quantitative language at levels appropriate to those students who must remedy basic deficiencies in these subjects in order to proceed with the normal curricular offerings.

Continuing education — As an institution interested in the educational needs of the entire community, the college makes available as many of its courses as possible through the extended day program. In addition it creates new courses designed to meet special needs in the community.

Counseling and Guidance — A program of counseling and guidance is provided so that every student may recognize his capabilities and limitations, develop his educational goals, select wisely from the offerings of the college, and lay a foundation for career interests.

Special Education — Special educational programs and services are provided to disabled students, veterans, the aging, women, culturally disadvantaged, and bilingually oriented.

HISTORY AND DEVELOPMENT

Founded in 1916 in response to a general petition of the electors, Riverside City College is well into its second half century of existence. In the beginning the college enrolled one hundred students in Polytechnic High School classrooms and operated under the Riverside City School District. On July 1, 1964, a separate Board of Trustees was elected and the Riverside Junior College District was completely separated from the Riverside City School system. The college district includes the Alvord, Jurupa, Moreno Valley and Riverside Unified School Districts. By action of the voters, the Val Verde School District will be annexed to the Riverside Community College District July 1, 1976.

On February 3, 1964, the Board of Trustees authorized the purchase of a second site for a future campus in the Arlington area. Funds for the construction of buildings on this campus depend on approval of special tax levies by voters in the district.

ACCREDITATION

Riverside City College is a California public community college fully accredited by the Western Association of Schools and Colleges. It is approved under the regulations of the Board of Governors, California Community Colleges and by the Veterans Administration for the training of veterans, by the United States State Department for nonquota immigrant students, and by the United States Department of Health, Education, and Welfare. The University of California, the California State University and Colleges and other colleges and universities give full credit for appropriate courses completed at Riverside City College.

COLLEGE MEMBERSHIPS

Riverside City College holds membership in the California Community and Junior College Association, the American Association of Community and Junior Colleges, and the Riverside Chamber of Commerce.

COMMUNITY SERVICES

Service to the community is a significant function of all public two-year colleges. An important part of this service is providing the public with information about the college and the activities of its students. At Riverside City College this is part of the responsibility of the Office of Community Services. Student groups are assisted in securing newspaper and radio publicity, and news releases about other college developments are distributed regularly. This office also prepares a number of publications describing the college and its curricular programs. It functions as a booking office for the college speakers bureau, which lists faculty members who are prepared to speak on a variety of topics. The college serves in other ways as well, providing lectures and dramatic and musical programs, making its facilities available for the use of responsible organizations in the community, providing guidance materials to junior and senior high schools in the area, and conducting a variety of special programs.
BUILDINGS AND FACILITIES

Administration Building

The Administration Building includes in the west wing a complex of five rooms especially equipped for office practice and other business classes. Also located in this part of the building are the Personnel Office and the Office of Community Services. In the east wing, the Administration Building houses the offices of the Deputy Superintendent, the offices of instruction, extended day office, and the district business office. It also includes a meeting room for the Board of Trustees and the office of the Superintendent/President.

Administration of Justice

In addition to classrooms on campus, the College has leased facilities at the Riverside County Sheriff's Academy for its specialized Administration of Justice courses. Located approximately five miles from the main campus, the facilities include a firing range, an auditorium, four classrooms, kitchen and a dining room.

Admissions-Counseling and Health Services Building

The Admissions-Counseling and Health Services Building is located on Terracina Avenue, across from Landis Auditorium. In addition to Admissions and Counseling, it also houses the Health Services office.

Art Department

The Art Department offers elementary and advanced work in drawing, painting, ceramics, sculpture, and commercial art. Equipment includes airbrushes, three gas-fired kilns, one electric kiln, and 14 potters' wheels. For classes in history and appreciation of art, the department has an extensive collection of colored slides, prints, and original paintings. A spacious art gallery is located in the northeast corner of the Quadrangle. The painting and graphics classes are offered in the Art Building; ceramics and sculpture courses are given in a separate Ceramics/Sculpture building nearby.

Auditorium

Landis Auditorium has a seating capacity of 1,400. It is used for both college and community functions.

Automotive Technology

The Automotive Technology facility consists of an air-conditioned laboratory and classroom in Technology Building A. A new Automotive Technology building is now under construction across from Technology Building A on Terracina Drive. Occupancy is expected by the fall semester of 1976. Equipment includes three hydraulic lifts, a mobile brake shop, parts cleaning facilities, portable wheel alignment equipment, a full complement of engine analyzers and tuneup devices, and a wide variety of specialized and general purpose tools. Engine rebuilding equipment includes cylinder boring bar, valve seat grinders, valve seat refacer and the usual auxiliary tools.

Bookstore

A bookstore is located in the Student Center. Operated by the Associated Students of Riverside City College, it carries an ample stock of all required books and supplies, as well as a variety of other books and soft goods.

Child Development Center

A college-operated Child Development Center has been established to provide preschool activities and experiences for the children of Riverside City College students. Priority is given to children of parents with an economic need. In lieu of fees, each parent will be required to participate in the Center three hours per week, which includes enrollment in one semester of Early Childhood Studies 12, "Parent Participation and Involvement," for three units of college credit. A physical examination and an up-to-date immunization record will be required of each child admitted.

Students in the college's Early Childhood Studies program leading to a Certificate and/or AA degree will receive instruction at this center. They will be observing and participating in supervised lab experiences involving the children, parents and staff. Students from various departments of the college will also be involved in observation, supervised lab experiences, and work experiences at the Center.

Cosmetology

Cosmetology facilities are located in the building on the corner of Cridge and Olivewood. The building has attracted statewide attention for its unique design. Instructional units are located around a central service core, and much of the equipment has been especially designed for the college in the interests of economy and the Office effectiveness. As part of the instructional program, complete beauty services for both women and men are offered at nominal cost. These services are performed by students under the supervision of experienced cosmetology faculty.

Cutter Pool

Cutter Pool is two large swimming pools, one 35 by 75 feet, the other 45 by 75 feet. Each can be used for competitive swimming events. One is of moderate depth to facilitate its use for the instruction of beginning swimmers. There are available one-meter and three-meter diving boards and other facilities necessary for competitive swimming and all phases of aquatic instruction. The water and the decks are heated to permit year-around activities. Registered students may use the pool on weekdays from 9 a.m. to 3 p.m. On Saturdays and throughout the summer the pool is also used for community recreational programs.

Data Processing Education Center

The Data Processing Education Center includes an IBM 3780 remote job entry terminal consisting of a card reader and a line printer; 020 keypunch; 402 accounting machine; 082 sorter; 514 reproducer-summary punch, and 685 collator. For compilation of student programs, the 3780 terminal is connected by private line to the IBM 360/90 at the University of California at Riverside.
Electronics Laboratory

The Electronics Department facilities include three laboratory-lecture rooms, a centrally located storage and issue room, and instructors' offices. All spaces are well-lighted, acoustically treated and air-conditioned.

The latest instruments from manufacturers such as Tek-tronix, Hewlett-Packard and other precision equipment makers are in use. The quality and amount of test and measuring equipment is constantly being renewed to keep facilities comparable to those used in industry.

All facilities are available to Extended Day Classes as well as to Day Classes.

Forum

Located in the northwest corner of the Quadrangle, the Forum is actually two lecture halls separated by a movable acoustical partition and designed for large-group instruction. Theater-type tablet arm seats — many for either right or left hand students — are provided on a sloping floor to enhance visibility. Room Q134A will accommodate 150, Room Q134B 100, for a total of 250 students when the partition is withdrawn. In each room, space has been left at the rear where wheel chairs can be placed while still leaving aisles clear. Each room is equipped for both rear-screen and conventional projection.

Graphic Arts Laboratory

Located in an air-conditioned, humidity-controlled building with adjoining lecture room, the graphic arts department combines classroom instruction with a wide variety of practical experiences gained through working on actual printing jobs produced in the department.

The laboratory area features a wide variety of modern equipment and presses for both the letterpress and offset printing, including computerized typesetting.

Instructional Media Center/Learning Skills Center

An instructional media center is available on the lower level of the library building (opposite the planetarium) for use by both faculty and students. The center is an extension of the Office of Instruction. Services to faculty include delivery of audio-visual equipment and films to classrooms, assistance with the preparation of instructional materials, and assistance with the acquisition of commercially prepared materials. Services to students include the use of a learning skills center, an information retrieval system and an auto-tutorial instructional/learning system. The Instructional Media Center is open from 8:00 a.m. to 9:30 p.m., Monday through Thursday; Fridays to 4:30 p.m. Saturday hours are 8 a.m. to noon. The facilities are closed Sundays.

Journalism

Journalism facilities are located in the east wing of the Quadrangle. These include a newsroom, a darkroom for beginning students and another for advanced photographers and a photographic studio. Opportunities for on-the-job training as editorial and photographic interns on local newspaper staffs are sometimes available.

Martin Luther King Library

The Library occupies the two upper floors of the Martin Luther King Library building, centrally located on the campus. It provides a seating capacity of 484 and a collection which includes 70,000 books, 500 magazines and 8000 pamphlets. Facilities in the Library include individual study carrels, seminar and typing rooms, and photocopying machines. Information about library policies as well as research procedures can be found in "Key to Your Library," a booklet obtainable at the loan or reference desk.

The services of the Library are available to students and residents of this area without charge.

Life Science Building

The Life Science Building houses facilities for biological sciences and nursing. These are equipped with experimental apparatus, photographs, microprojectors, growth chambers and other facilities. There are also such visual aids as films, slides, charts, models, museum specimens, and closed-circuit television. Each student has the use of a microscope, preserved and living specimens, and other aids.

Music Building

The air-conditioned Music Building contains rehearsal rooms for vocal and instrumental music, practice rooms and a twenty-five station electronic piano laboratory for the use of piano and theory classes. Four grand pianos, eleven practice pianos, two organs, major band and orchestra instruments and stereo recording and sound systems are available for class and student use. The music department has an extensive library of vocal and instrumental music, books and recordings.

Off-campus Centers

In recent years classes have been given at March Air Force Base, the Riverside Public Library, the Riverside City Museum, Corona and Moreno Valley High Schools, and various community centers operated by the Riverside Park and Recreation Department. From time to time, other classes are offered at additional off-campus locations.

Physical Education

Facilities for physical education classes, recreation, intramurals, and intercollegiate athletic programs include Wheelock Gymnasium and Stadium and the surrounding outdoor area and the Women's Gymnasium and its adjacent athletic field. Eight tennis courts are located at the corner of Magnolia Avenue and Terracina Drive, and five more are located on Saunders Street, near the Women's Gymnasium. The latter are lighted by the City of Riverside to provide nighttime recreation.
Physical Science Laboratories

The Physical Science Building houses chemistry, physics, oceanography, and geology laboratories. Advanced, up-to-date chemistry facilities include U.V.-visible and I.R. spectrophotometers, gas liquid chromatographs, refractometers, high speed centrifuge, polarization equipment, analytical and digital balances, and hydrogen ion equipment. The geology lab includes a wide variety of lapidary equipment as well as a carbon arc spectrophotometer. Oceanography labs contain a digital water quality analyzer and a settling tube, both rare pieces of equipment in any college or university. Equipment in the physics laboratory includes such instruments as a micro-wave transmitter and receiver, radiation detectors with mounts and decade scalers, continuous gas laser, frictionless air track and air table, Tektronix oscilloscope, and electronic calculators and computers.

Planetarium

The planetarium adjoins the library. The domed ceiling within this building serves as a screen upon which star images can be projected, thus creating the illusion of the night-time sky. The projector is a Spitz Model A-4. Other audio-visual equipment is also used to create realistic situations for the purpose of instruction. The foyer of this building contains the astronomy-geology museum. During the day time a live image of the sun is projected in the foyer by means of a heliostat (sun telescope).

Reading Laboratory

The College maintains especially equipped facilities for reading improvement and developmental reading classes. The lab is open on a walk-in basis from 8 a.m. until 4:30 p.m. Film projectors, pacers, the tachistoscope, the controlled reader, the Craig reader, cassette tapes, film strips, the SRA reading laboratory and practice books and materials are available for classroom use in helping students to read more efficiently.

COLLEGE YEAR

The college year consists of two regular fall and spring semesters which extend from September to June plus a summer session. The calendar for the 1976-77 college year will be found on pages 4 to 6. Courses offered during the various sessions are similar in scope and maintain equivalent standards.

SUMMER SESSIONS

Summer session classes will be held for six weeks, with longer sessions for some curricula. Qualified high school students may enroll in college summer sessions prior to entering the twelfth grade. Arrangements are made through the high school principal and the College Admissions Office.

WHO MAY ATTEND

Individuals wishing to enroll in Riverside City College for credit in day or Extended Day must file an official application at the Admissions Office. Admission to Riverside City College is regulated by State Law as prescribed in the California Education Code.

Residents of the District

Any graduate of an accredited high school (or any person who has passed his eighteenth birthday and who can profit from instruction) and whose legal residence is in the Riverside Community College District (or not in any other California community college district) will be admitted provided he completes the matriculation requirements. The college district includes the Val Verde School District (after July 1), and the unified school districts of Alvord, Jurupa, Moreno Valley, and Riverside.

High School Students Attending Riverside City College

High school students who qualify on the basis of their scholastic records or vocational abilities may be eligible to attend Riverside City College classes as part-time students. Arrangements for entrance into this program are made through the high school principal and the College Admissions Office.

Residents of Other Community College Districts

A student whose legal residence is in another community college district must present a release from that district before he may enroll at Riverside City College.
Residents of Areas Not in a Community College District

A student whose legal residence is in California in an area that is not in a community college district is eligible for admission to Riverside City College.

Non-Residents (Out of State)

A student whose legal residence is not in California may be eligible for admission to Riverside City College. Such a student, however, is subject to the nonresident fee. The fee is $37 per unit per semester, but not to exceed $555 per semester, payable at the time of registration. Additional information may be obtained from the Admissions Office.

Notice of Restriction

Any person who is a legal resident of the Riverside Community College District may not attend another public community college in California unless a permit for such attendance has been issued by the Riverside Community College District. This can be secured from the Admissions Office.

No Restriction on Basis of Sex

The college fully complies with the requirement of the Federal Government that “No person in the United States shall on the basis of sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving financial assistance.”

ADMISSION AND REGISTRATION OF DAY STUDENTS

Application

Official application forms may be obtained by calling in person or by writing to the Admissions Office of Riverside City College, 4800 Magnolia Avenue, Riverside, California 92506. Application forms for the fall semester will be available after April 1, 1976. Forms for the spring semester will be available after November 1, 1976.

Transcripts

It is the responsibility of the applicant to have official transcripts of high school and all previous college records on file in the Admissions Office as early as possible after the current semester's work has been completed. These transcripts must be received before an appointment for registration counseling can be made. Credit for previous work at accredited colleges will be accepted upon receipt of an official transcript.

Health Requirements

It is recommended that each student new to Riverside City College have a physical examination by his family physician before he enrolls. Audiometric and vision screening are available in the Health Services Office.

Students who plan to participate in intercollegiate athletics are given a physical examination by a physician on campus. Cases needing further attention are referred to the physician or medical service of the student’s choice.

Counseling Examinations

All students entering Riverside City College are required to take two tests. One is a general college aptitude test that measures verbal and quantitative abilities. The other is an English test which measures reading ability and effectiveness of expression. The information obtained from these tests is used in counseling students and planning programs. Although no student is denied admission to the college on the basis of the test results, the scores are used by several divisions in determining qualifications to enter certain courses.

The test battery includes a measure of competence in mathematics. To receive an A.A. degree a student must have a satisfactory score on this test or pass a college mathematics course.

All students who wish to qualify for English 1-A or certain social science courses (e.g., history, political science) must qualify by test scores. Students who fail to qualify are advised to register in an appropriate course that will help them qualify (e.g., English 50-A for the student trying to qualify for English 1-A). After enrolling in the appropriate course or courses, the student may repeat all or part of the test battery. If after completing the appropriate course or courses and repeating the test battery the student still does not qualify for the desired course, he has the right to petition through his English 50-A instructor and the chairperson of the English Division.

Test Permits for Prospective Day Students

A test permit is issued as soon as an application for admission is filed. To insure a reservation for a given test, the student should have his application on file at least one week before the test is scheduled. See Test Schedule on pages 17-18. If the test permit is issued by mail, it is the student's responsibility to complete and return the stub by mail.

Tentative Testing Schedule

Students are advised to allow at least four hours for the complete test battery. Permits are required, and these can be obtained from the Admissions Office. However, the Admissions-Counseling Building is closed on Saturday, so test permits must be obtained prior to a Saturday testing date.

FOR SUMMER SESSION AND FALL SEMESTER, 1976

<table>
<thead>
<tr>
<th>Date</th>
<th>Year</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
<tr>
<td>Thursday</td>
<td>1976</td>
<td>6 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>1976</td>
<td>9 a.m.</td>
</tr>
</tbody>
</table>

(Continued on Page 18)
Saturday July 24 1976 9 a.m.
Saturday July 31 1976 9 a.m.
Monday August 2 1976 6 p.m.
Saturday August 7 1976 9 a.m.
Tuesday August 10 1976 6 p.m.
Saturday August 14 1976 9 a.m.
Wednesday August 18 1976 6 p.m.
Saturday August 21 1976 9 a.m.
Thursday August 26 1976 6 p.m.
Saturday August 28 1976 9 a.m.
Wednesday September 1 1976 6 p.m.
Saturday September 4 1976 9 a.m.
Wednesday September 8 1976 6 p.m.
Saturday September 11 1976 9 a.m.

FOR SPRING SEMESTER, 1977
Saturday November 6 1976 9 a.m.
Saturday November 27 1976 9 a.m.
Saturday December 11 1976 9 a.m.
Monday December 20 1976 6 p.m.
Tuesday December 28 1976 9 a.m.
Thursday December 30 1976 6 p.m.
Saturday January 8 1977 9 a.m.
Saturday January 15 1977 9 a.m.
Saturday January 22 1977 9 a.m.
Saturday January 29 1977 9 a.m.

Strong Vocational Interest Blank and Kuder Occupational Interest Survey

The Strong and Kuder Tests provide measures of occupational interests. They enable a student to compare his pattern of interests with those of people judged to be successful in specific occupations. Students must obtain a test permit from the College Bookstore. The fee for scoring either the Strong or Kuder is $1.50, and both may be taken individually through the Counseling Center.

Appointments for Registration Counseling

A student is ready for final registration only after he has filed an application and all official transcripts at the College and has taken the required guidance tests. Appointments for counseling may be made by following the instructions included in the Application for Admission packet.

Expenses

Nonresident Tuition

Nonresident students will be charged a tuition of $37 per unit per semester, not to exceed $555 per semester or $1110 maximum.

Books and Equipment

The cost of books and equipment depends upon the courses elected and the amount of work undertaken. The average yearly expenditure for books and materials is approximately $150, but if second-hand books are purchased, the cost can be reduced. A list of texts and materials required for all courses, together with costs, is published in a separate bulletin and is available at the College Bookstore. Checks can be accepted only for the amount of the purchase. Students of limited funds should consult the office of the Dean of Student Personnel Services, Support Services.

Health Fee

The health fee for day students in 1975-76 was $3.50. The amount of the fee for 1976-77 will be determined prior to the beginning of the fall semester, 1976.

Other Charges

A charge will be made for excess breakage in chemistry and vocational laboratories. All chemistry students will be required to purchase eye protection glasses, which may be obtained in the Bookstore.

Transportation and Parking

The college is located near downtown Riverside and is accessible by bus or car. On-campus parking is available by permits which can be purchased at the college bookstore on a first-come, first-serve basis. Privileged special parking is provided for the physically handicapped at the same cost.

Educational Objectives

A student’s college program will be more meaningful if he has acquired a clear educational objective. This may be a desire to broaden his knowledge as a foundation for upper division college work or to develop marketable occupational skills. If a student is undecided about his objective he may receive help by studying the sections in the catalog entitled “Curricular Patterns.” He is also invited to discuss his goals with a college counselor.

Foreign Students on F-1 Visa Status

Under Federal Law, Riverside City College is authorized to enroll non-immigrant alien students on F-1 student visas for two-year vocational and semi-professional curricula and for the first two years of an accredited baccalaureate degree program.

All F-1 visa students are subject to non-resident tuition as set by the Board of Trustees.
REQUIREMENTS FOR COLLEGE TRANSFER

Requirements for Admission to the University of California

Students who have earned fewer than 56 semester units of college work will be admitted to the University of California on the basis of their high school records.

A student who was eligible to enter the University of California directly from high school must maintain a C average in all work taken in a community college.

Students with High School Deficiencies

A high school graduate not qualified to enter the University of California directly from high school must present at least 56 semester units of transferable courses from a community college with a grade point average of 2.0 (C equals 2). Seventy semester units is the maximum allowed in transfer from a community college.

General Education Breadth Requirements for a Degree from the University of California

Copies of the breadth requirements for each University of California campus are available in the Counseling Center.

Requirements for Admission to the California State University and Colleges

High School Requirements

High School graduates are classified as "eligibles" or "ineligibles" on the basis of an Eligibility Index. This Index is a weighted total of either the ACT Composite Score (American College Testing Program), or the SAT Total Score (Scholastic Aptitude Test of the College Entrance Examination Board), and the student's high school grade point average.

Community College Transfers

A student who was eligible to enter a California State College as a freshman must maintain a C average in all work taken at a community college. A student who was ineligible to enter a California State College on his high school record may transfer from a two-year college on completion of 56 transferable units with a C average. Seventy units is the maximum allowed for transfer from a community college.

General Education Breadth Requirements for a Degree from the California State University and College System

Riverside City College will certify to the California State University and College System that students who have completed requirements below have met the general education requirement. Completion of this pattern will satisfy 40 units of general education. Each California State University or College may specify additional general education requirements for the bachelor's degree, provided that such requirements apply equally to all students. Transfer students shall not be required to take additional general education units (including prerequisites) in excess of the difference between 40 semester units and the total number of general education units required by the State University or College.

Proper planning normally should enable students to satisfy the State University or College general education-breadth requirements concurrently with requirements for graduation from Riverside City College. See the Associate in Arts degree requirements in this catalog.

Students must complete 40 units in five areas outlined below. Thirty-two units must be completed in the first four areas (natural sciences, social sciences, humanities, and basic subjects). A course used to satisfy a requirement in one area may not be used to satisfy a requirement in another area. In general, courses used to satisfy requirements for the major may not be used to satisfy general education-breadth requirements.

1. Natural Sciences (6 units minimum)
   Select two or more courses from the following:
   (One course from the biological sciences and one from the physical sciences is recommended. It is also recommended that one course have a laboratory.)
   
   (a) Biological Sciences
   Agri-business 12, or 13, 23
   Anatomy and Physiology 2-A, 2-B
   Anthropology 1 (if not used as a social science)
   Biology 1, 7, 10, 11, 30, 36
   Botany 1, 2, 3
   Microbiology 1
   Psychology 2 (if not used as a social science)
   Zoology 1, 2
   
   (b) Physical Sciences
   Astronomy I-A, I-B
   Geography 1 (if not used as a social science)
   Geology 1-A, 1-B, 2, 21, 30-ABC
   Oceanography 1, 2
   Physical Science 1, 3
   Physics 2-A, 2-B, 4-A, 4-B, 4-C, 4-D, 10,11

2. Social Sciences (6 units minimum)
   Anthropology 1 (if not used as a biological science), 2, 3, 20
   Economics 4, 7, 8, 30, 40
   Geography 1 (if not used as a physical science), 2
   Gerontology 1, 2, 3, 4
   History 4, 5 (if not used as a humanities), 6, 7, 8, 9, 14, 15, 19, 21, 22, 25, 26, 27, 28, 29, 30, 31, 34, 35
   Political Science 1, 2, 3, 4, 11
   Psychology 1, 2 (if not used as a biological science), 4, 33
   Sociology 1, 2, 10, 12, 15, 31, 35, 45

3. Humanities (6 units minimum)
   Art 1, 2, 3, 5
   English 6, 7, 9, 11-A, 11-B, 13, 14, 15, 16, 18, 20, 25, 26, 27, 30, 34, 35, 37-ABCD, 40, 41, 42, 44, 45, 48, 49
   History 4, 5 (if not used as a social science)
Basic Subjects (6 units minimum)
(a) English 1-A is required
(b) At least 3 units from among:
   - English 1-B
   - French 1, 2, 3, 4, 5, 25
   - German 1, 2, 3, 4
   - Italian 1, 2
   - Library 1
   - Philosophy 1, 2
   - Spanish 1, 2, 3, 4, 5
   - Speech 1, 2

Electives (8 units maximum)
If additional units are needed, they may be selected from:
   - Accounting 1-A, 1-B
   - Administration of Justice 1, 2, 3, 4, 5
   - Art 4-A, 4-B, 15, 16, 20, 21, 22, 23, 25, 26, 30, 37, 40, 41, 47-AB, 48-AB
   - Business Administration 10, 18-A, 18-B, 30
   - Data Processing 1, 2, 10, 11, 12-AB, 13-AB, 14, 15, 20, 30
   - Education 1
   - Engineering 1-A, 1-B, 22, 23, 24, 35
   - Health Science 1
   - Home Economics 1, 4, 5, 7, 10, 20, 21-AB, 25, 30
   - Journalism 1, 2, 3, 4, 5, 7, 11-ABCD, 12, 15
   - Photography 8, 9, 11-ABCD, 12, 13, 19, 20, 23-AB
   - Physical Education 27 or 28, 30, 31, 32, 33, 34, 35 or 36, 37, 38, 39, 40, 41, 44
   - Physical Education activities courses (4 units maximum)
   - Speech 3-A, 3-B, 4-A, 4-B, 5, 7, 8, 10-ABCD
   - Theater Arts 7, 8, 10, 11, 15, 17, 25-ABCD, 26, 27, 28-ABCD, 29-ABCD, 30-ABCD, 31-AB

Requirements for Admission

California's fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community college.

Admission Policies
Students who transfer to independent colleges or universities may be given academic credit for most, if not all, of their community college studies. Virtually all institutions give full credit for general education courses and usually for other courses designated for transfer by the community college.

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time. The requirements are outlined in the respective college catalogs, available upon request from the college's Office of Admissions.

Independent institutions are generous in awarding credit. They invite you to make an appointment with their Office of Admissions in order to discuss your transfer opportunities on a personal basis. Copies of breadth requirements and major requirements for some of the nearby independent colleges and universities are available in the R.C.C. Counseling Center.

Transferability of Courses
Questions regarding the transferability of courses should be referred to a college counselor. A listing of baccalaurate level courses — acceptable courses for admissions purposes to California State University and College System — is available from any college counselor or in the Career Center in the Admissions Building. A list of baccalaurate courses acceptable for admissions to the University of California is also available.

VETERANS EDUCATION
Riverside City College is accredited to offer four different programs of education to veterans. These programs are (1) Cold War G.I. Bill; (2) Federal Rehabilitation Program for veterans who have service connected or aggravated disabilities; (3) children and widows of deceased or disabled veterans; and (4) State of California Veterans Education Institute Act.

Students may obtain information from the Veterans secretary in the Admissions Office.

In addition to the usual steps required in filing an application for admission, a veteran wishing to attend on one of the assistance bills should complete the Veterans Enrollment Record Card at the Veterans Office after scheduling classes. The assistance allowance is available for full-time, three-fourths time or half time students.

PROGRAM FOR THE DEAF

Purposes of the Program
The College conducts an educational program for high school graduates with impaired hearing. This program is designed so these students can get a vocational certificate or an Associate in Arts degree in approximately two years of study. The vocational curriculum does not normally prepare students for transfer to Gallaudet or any other four-year college. However, preparatory and transfer courses are available for students who qualify.

Admission
Because the number of students in this program must be limited,
admission is based on entrance tests, recommendations from previous teachers, and transcripts of high school records. Since there is a large number of applications from within the state, current high school graduates from California will be given preference. Entrance examinations are given each spring, usually in April, and after evaluation of these and other pertinent factors, applicants are notified as soon as possible.

Classes Available

Students can major in accounting clerk, early childhood studies, electronics, drafting, auto mechanics, business, art, cosmetology, vocational nursing, dental technology, teachers' aide, data processing, engineering aide, graphic arts, home economics, library technology, and gerontology. Classes for the non-transfer student in English, history, physical science, psychology, health sciences and individualized classes in mathematics are taught separately from the hearing classes through the Total Communications Method by four trained instructors of the deaf. These special instructors also act as counselors for each of the deaf students. In all other classes, deaf students join regular hearing groups where hearing people are employed as interpreters or tutors for the impaired hearing as needed.

ENROLLMENT, EXTENDED DAY

Extended Day Program

The College offers a wide selection of Extended Day classes. These are designed to serve two types of students — day students who find it necessary to take classes in the evening to complete their schedules and students who are able to take college classes only in the evening.

Because the Extended Day is, as its name implies, essentially a continuation of the college's regular daytime program, the same entrance requirements are observed and the same standards of attendance and achievement are maintained as in the daytime schedule.

While not all courses offered in the day schedule are available in the evening, it is nevertheless possible for a student to complete entirely through evening classes the requirements for the Associate in Arts degree and for transfer in most majors with advanced standing to four-year collegiate institutions. In addition, a wide variety of occupational-technical courses is also available.

Schedule of Classes

A schedule of all college classes listing all courses offered and special registration procedures for Extended Day students is available in the college Admissions Office. All courses published in this bulletin are part of the regular curricula and unless otherwise specifically noted carry credit and can therefore be applied to the requirements of the Associate in Arts degree.

Admission and Registration of Extended Day Students

Anyone who is a high school graduate or who is 18 years of age or over and can profit from instruction may carry on a program which leads to (1) an A.A. degree, (2) with proper selection of courses, a program of study leading to transfer to a four-year college or university, (3) occupational-technical training, or (4) personal improvement through general education.

Fees

The Board of Trustees has established a $7.50 fee each course offered each semester under the Extended Day program. The only exceptions are for students who are properly enrolled in the day college, students under 21 years of age, students enrolled in apprenticeship classes and students who are recommended for special training by the Riverside County Department of Public Social Services.

All students are required to pay a health fee each semester. The fee for day students in 1975-76 was $3.50. The amount of the fee for 1976-77 will be determined prior to the beginning of the fall semester, 1976. The fee is non-refundable and must be paid at the time of registration. The health fee will provide students with on-campus accident insurance and will entitle them to full use of the college health services.

Non-California resident students will be charged a tuition fee of $37 per unit per semester, not to exceed $555 per semester. Non-resident students who are on active military duty and dependents of military personnel on active duty who are stationed in California or outside the continental United States are exempt from payment of this fee. They are entitled to resident classification until the student has resided in the State of California the minimum time necessary to become a resident. (ESC 22853)

Counseling Examinations

Students wishing to enroll in courses requiring qualifying tests must obtain a test permit and take the college aptitude tests. Allow four hours for the tests.

Test Permits for Prospective Extended Day Students

A test permit is issued by the Admissions Office upon request. The test permit forms must be filled out and stub filed with the office. To insure a reservation for a given test, a student should have his test request on file at least one week before the test is given. See test schedule on pages 17-18.

Counseling in the Extended Day Program

Counseling is available to Extended Day students Monday through Thursday between 6:00 and 9:00 p.m. Appointments may be made at the Counseling Center, either in person or by telephone (684-3240).

Educational Objectives

An Extended Day college program will be more meaningful if the student has acquired a clear educational objective. If an adult is undecided about his objectives, he may receive help by studying the sections in the catalog entitled "Curricular Patterns." He is invited to discuss his goals with an Extended Day counselor.
ASSOCIATE IN ARTS DEGREE, DAY AND EXTENDED DAY

The Associate in Arts degree will be conferred on any student who has completed satisfactorily not less than 60 units of college work. In order to receive the degree from Riverside City College, a student must complete the final 12 or at least 50 of the required units in residence at Riverside City College.

Satisfactory completion means that a student must have a grade point average of not less than 2.0 (C average) both in work taken at Riverside City College and also in all work attempted at all accredited colleges attended. The following requirements must be fulfilled:

A. A major of at least 18 semester units in a discipline or related discipline indicated in one of the four groups listed below:

Group 1. Natural science (life and physical), or engineering, or mathematics, or any combination of these.
Group 2. Administration of justice, anthropology, or business administration, or economics, or education, or geography, or history, or physical education (academic courses only), or political science, or psychology, or sociology, or any combination of these.
Group 3. Art, or English, or early childhood studies, or foreign languages, or home economics, or humanities, or journalism, or music, or philosophy, or speech, or theater arts, or any combination of these.

B. General Education of at least 20 semester units which shall include at least one course and a specified minimum number of units in each of the following 4 areas:

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Natural Sciences (Choose at least one course from a. and one course from b.)</td>
<td>4-5</td>
</tr>
<tr>
<td>a. Health Science I or Physical Education 44 or completion of LVN or RN programs</td>
<td></td>
</tr>
<tr>
<td>b. Any courses for which the student is eligible in Anatomy and Physiology, Astronomy, Biology, Botany, Chemistry, Geology, Microbiology, Oceanography, Physical Science, Physics and Zoology. Waivers for this requirement (1.b.) will be granted for Aeronautics 51-A, Agri-Business 12 or 13, Apprentice Electrician program, Cosmetology 53 or 63-B, Dental Technology 72-B and 74, Electronics 53 or 73, and Nursing 51 and 54.</td>
<td></td>
</tr>
<tr>
<td>2. Social Sciences (Choose at least one course from a. and one course from b.)</td>
<td>6</td>
</tr>
<tr>
<td>a. American Studies Any course for which the student is eligible in History 6, 7, 8, 9, 15, 27, 30, 31, 34, 53; Political Science 1, 11</td>
<td></td>
</tr>
<tr>
<td>b. Behavioral Sciences or Global Concepts Any course for which the student is eligible [if not used under 3] in Anthropology, Economics, Geography, History (4, 5, 14, 19, 20, or 25 only) Political Science (2, 3, or 4 only), Psychology, and Sociology</td>
<td></td>
</tr>
<tr>
<td>3. Humanities Any courses for which the student is eligible in Art, English 1-B, or 50-B (if not used in 4.c. Learning Skills), Foreign Languages, History 4, 5 (if not used under 2.b.), Humanities, Literature, Music, Philosophy, Speech (7, 8 only), or Theater Arts.</td>
<td></td>
</tr>
<tr>
<td>4. Learning Skills (Choose at least one course from b. and one course from c.)</td>
<td>5-8</td>
</tr>
<tr>
<td>a. Mathematics competency is required</td>
<td>0-2</td>
</tr>
<tr>
<td>It may be satisfied by obtaining a satisfactory score on a test or by completing a mathematics course at the college level</td>
<td></td>
</tr>
<tr>
<td>b. Communication (Written) English 1-A or 50-A</td>
<td>3</td>
</tr>
<tr>
<td>c. Communication (Reading or Oral) English 1-B or 50-B (if not used in 3. Humanities) or Speech 1 or 51</td>
<td>2-3</td>
</tr>
<tr>
<td>5. Physical Education</td>
<td>0-4</td>
</tr>
<tr>
<td>Enrollment in an activity course is required for the first two semesters a student under 21 is enrolled in 9 or more units. Two semesters of activity courses completes the requirement. Not more than 4 units of activity courses may be counted toward the 60 semester units minimum requirement for the A.A. degree.</td>
<td></td>
</tr>
</tbody>
</table>

SCHOLASTIC HONORS AT GRADUATION

Honors at graduation are awarded to students with exceptionally high grade point averages. These students are the first to receive their degrees. Their names are listed on the graduation program as receiving the Associate in Arts degree With Distinction or With Great Distinction. The principal speaker at graduation exercises is a student chosen by permanent members of Alpha Gamma Sigma.

CLASSIFICATION OF STUDENTS

Freshman: Students with fewer than 30 units of college credit.
Sophomore: Students who have completed 30 units of college credit.
Full-time Student: Student carrying 12 or more units.
Part-time Student: Student enrolled for less than 12 units.

STUDY LIST REGULATIONS

Official recognition is given only to those courses which have been approved by a counselor and entered upon the student's official study list.

So far as possible, all students should attempt to plan their programs for a full year.

Physical Education is required of all students. Exemption from Physical Education may be granted (1) to the student who is registered for less than 9 units, (2) to the student who is 21 years of age or over, (3) to the student who has a physical disability, or (4) to the student who has completed four semesters of Physical Education.
For those who are in good health and able to devote the major part of their time to college study, the normal load is 16-17 units. No one may enroll for more than 18 units (including physical education) without permission from the Dean of Academic Services. Any units in excess of 18 which have not been approved by the Dean of Admissions may be deducted by the Admissions Office. Extended Day classes are part of the student's regular study load.

PETITION FOR CREDIT BY EXAMINATION

General Information

Students may apply in the Admissions Office for credit by examination under the following conditions:

1. Credit by examination may be granted only for courses listed in the Riverside City College Catalog. Unit values will be granted equal to the catalog courses.

2. To petition for credit by examination, a student must be fully matri-culated in good standing and have completed not less than 12 units of work at Riverside City College with an overall grade point average of 2.0 (C).

3. A student may receive credit by examination in one course for each semester or summer session in a total amount not to exceed 15 units.

4. The student who petitions for credit by examination will receive the grade which he earns on the examination. The results of all such examinations with grades will be entered in the student's permanent record in the same manner as for regular courses. If a student fails an examination he will receive an "F" on his transcript.

5. Credit by examination is not treated as part of the student's study load for any given semester, and therefore, will not require a petition for excess study load; is not part of the study load for Selective Service Deferrment, or for Veteran's Administration.

6. Examinations usually will be given during the regularly scheduled time for other students taking the course.

    Special examinations at times other than the regularly scheduled time may be approved at the option of the division chairperson.

Conditions for Petitioning

The petition requesting permission to challenge a course is initiated by the student in the Admissions Office. Approval from the division chairperson shall require presentation by the student of acceptable evidence of having had special training, experience or independent study presumed to be equivalent to the course for which credit by examination is requested. The division chairperson, after discussion with the staff concerned, must approve or disapprove the petition.

GRADING SYSTEM

Grades

Riverside City College uses the letter system of grading the quality of work performed by students.

Grade reports are issued at the close of each semester. The following grades are used:

A, excellent; B, above average; C, satisfactory; D, below average but passing; F, failed; I, incomplete; CR, credit; NC, non-credit; W, formal withdrawal from the college or a course.

The "W" grade will be awarded to any student who voluntarily drops a course between Monday of the seventh week and one week prior to the start of final examinations. The deadline date is shown in the college calendar on page 5-6. A student who withdraws from college will receive a "W" in each course in which he is enrolled at the time of withdrawal if the withdrawal is filed in the Admissions Office prior to the deadline shown in the calendar.

The "I" grade is given only in cases where a student is doing passing work but for reasons beyond his control is unable to complete the requirements of the course. Such a grade should be made up as soon as possible following the semester in which the "I" grade was assigned. Upon completing the requirements for the course, the student must initiate a request for change of grade with the instructor of the course. An "I" grade appearing on the student's permanent record will not be counted as units attempted in computing grade point average.

Grade Points

On the basis of scholarship grades, grade points are awarded as follows: A, 4 points per unit of credit; B, 3 points per unit of credit; C, 2 points per unit of credit; D, 1 point per unit of credit; F, no points per unit of credit. In computing the grade point average, units attempted are not charged and grade points are not awarded for grades of "I," "W," "NC" or "CR."

Credit-No Credit

A. Any student may elect Credit-No Credit in any class that is offered on a Credit-No Credit basis.

B. An instructor may offer any or all classes on a Credit-No Credit basis.

C. Credit or CR is equivalent to completing the course work and earning a "C" grade or better in the class.

D. Students may elect Credit-No Credit option during the week immediately preceding the drop deadline.

Students should be aware that transfer institutions may not accept courses for transfer taken in a student's major on a Credit-No Credit basis.

All classes taken on a Credit-No Credit basis in which credit is earned will count toward an Associate in Arts degree at Riverside City College.

Credit-No Credit provides an opportunity for students to take a course without being overly concerned about a grade. If a student performs at a satisfactory level he would earn a "CR" and would earn the units for that course. If the student performs at less than a satisfactory level he would receive an "NC." No units would be earned for an "NC." In neither case, "CR" nor "NC," would the student be charged with units attempted in computing the grade point average.
A student who elects to take a course on the Credit-No Credit system and who subsequently performs at a high level will not be awarded grade points that are normally assigned to the student who earns an "A" or "B" grade. A student who receives a "CR" may not repeat the course for a grade.

Mid-Term Grades

Normally instructors will advise students at the end of the first nine weeks of each semester concerning their progress in class.

Final Examinations — Final Grades

Final semester examinations are required in all classes. All students must take these examinations at the scheduled time and place. Failure to appear for a final examination may result in an "F" grade in the course. Final grades will be mailed to each student soon after the end of each semester.

Grades Required in Prerequisite Courses

A student who receives a grade of "D" for the first semester in a year-course may be denied admission to the second semester of that course. He may also be denied admission to a course if he receives a grade of "D" in a prerequisite subject.

Grades for Repeated Courses

Students may repeat any course previously attempted whether or not the course is successfully completed. By filing a petition in the Admissions Office the student may elect to have the highest grade earned by him used to compute his grade point average. In the computation of the grade point average only the highest grade will be counted. The adjusted grade point average will be used in determining the academic status and in establishing eligibility for the Associate in Arts degree and occupational certificates.

Courses repeated to raise a grade must be counted in the study list total. Additional units are not allowed if units were earned in the previous attempt.

This policy does not guarantee comparable action by four-year colleges and universities in their evaluation.

Students should file a petition in the Admissions Office to select the highest grade after the course has been repeated.

A CHANGE IN THE STUDENT’S PROGRAM

Procedure for Adding Courses

If a class is open, students may add classes to their schedule by filing a petition in the Admissions Office prior to the first meeting of the class in the second week of the semester. After this time, or if the class is closed, the instructor's written approval is required. All add petitions must be filed prior to 4:00 P.M. on Friday of the third week of the semester.

Procedure for Dropping Courses

A course may be dropped by petition on forms that may be obtained in the Admissions Office. After completing the form the student must file the petition at the Admissions Office.

A student may drop a class with no grade at any time during the first six weeks of the semester. A student may drop a class between Monday of the seventh week and the date shown below for the semester with a grade of "W." Students enrolled in any course after the date shown below are responsible for completing the course and will receive a final grade.

- Summer School, 1976 — Friday, July 23, 1976
- Fall, 1976 — Friday, January 7, 1977
- Spring, 1977 — Friday, May 27, 1977

Each student is responsible for filing a drop card in the Admissions Office if he wishes to drop a class. Courses are not considered officially dropped unless the Admissions Office has been notified on the form provided.

AUDITING CLASSES

Students will not be permitted to attend classes in which they are not officially registered.

STANDARDS OF SCHOLARSHIP: PROBATION AND DISMISSAL

The policies of probation and dismissal are applicable to day or evening, full-time or part-time students. The following policies relating to grade point average and probation and dismissal will also apply to students transferring from other colleges. At catalog publication time, the policies were under study and are subject to change.

Probation at Entrance

Students who have not filed transcripts of all work attempted at other collegiate institutions shall be placed on probation at entrance.

Appeals of Probation or Dismissal

Any student who is placed on probation and who feels that an error has been made in the determination of his academic status should notify his counselor of the error.

Any student who is dismissed may file a Petition for Waiver of Dismissal in the Admissions Office. Each petition will be evaluated by a Committee on Standards of Scholarship.
Attainment of Single Probation

1. If the student earns less than a 2.0 grade point average for the semester or summer session in all units attempted, he/she will be on single probation during the next semester in which that student is enrolled.

2. If, after Friday of the sixth week of the semester, the student drops, is dropped from, or receives an "incomplete" in any class, he/she will be on single probation during the next semester in which that student is enrolled. The student's study load will be determined as of 4:30 p.m. on Friday of the sixth week of the semester. The study load, which the student will be required to complete in order to avoid single probation, will be adjusted upward if the student is added to any class after Friday of the sixth week.

NOTE: Veteran students are not eligible to receive Veterans' benefits after a single period of academic probation. The college is required to notify the Veterans Administration and to indicate the need to discontinue benefits should a veteran student be placed on double probation.

Attainment of Double Probation

1. If the student on single probation earns less than a 2.0 grade point average for the semester or summer session in all units attempted, he/she will be on double probation during the next semester in which that student is enrolled.

2. If, after Friday of the sixth week of the semester, the student on single probation drops, is dropped from, or receives an "incomplete" in any class, he/she will be on double probation during the next semester in which that student is enrolled. The student's study load will be determined as of 4:30 p.m. on Friday of the sixth week of the semester. The study load, which the student will be required to complete in order to avoid double probation, will be adjusted upward if the student is added to any class after Friday of the sixth week.

Dismissal from College

1. If the student on double probation earns less than a 2.0 grade point average for the semester or summer session in all units attempted, he/she will be dismissed from Riverside City College for at least one semester.

2. If, after Friday of the sixth week of the semester, the student on double probation drops, is dropped from, or receives an "incomplete" in any class, he/she will be dismissed from Riverside City College at the conclusion of that semester for at least one semester. The student's study load will be determined as of 4:30 p.m. on Friday of the sixth week of the semester. The study load, which the student will be required to complete in order to avoid dismissal, will be adjusted upward if the student is added to any class after Friday of the sixth week.

Incomplete Grades and Probation

A student who is placed on probation or dismissed as the result of an incomplete grade will be eligible for a re-evaluation of his probationary status as soon as the work required for removal of the "I" grade has been made up and a final grade has been submitted to the Admissions Office.

Reinstatement after Dismissal

A student who has been dismissed from college for one semester will be required to file an application for admission in order to be considered for reinstatement. Any student who is readmitted to Riverside City College after dismissal will be readmitted on double probation.

Removal of Probation

In order to remove probation, a student must earn a "C" average (2.0 g.p.a.) or better in a minimum of 12 units in one semester provided he completed all courses in which he is enrolled as of Monday of the seventh week. A student enrolled in less than 12 units may remove probation by earning a "C" average in and completing all courses until he accumulates a total of 12 units in successive semesters.

ATTENDANCE

All students are expected to attend every session of every course in which they are enrolled. Failure to do so may indicate lack of serious purpose. A student may be dropped from a course for excessive absence, regardless of cause, if the number of absences is having an adverse effect upon his success in college. Religious observations, however, are excused. The student should inform his instructors prior to such an absence.

Work missed for unavoidable cause may be made up with the instructor's approval. Under no circumstances will absence for any reason excuse the student from completing all the work assigned in a given course. After an absence, it is the responsibility of the student to check with his instructor about the completion of missed assignments.

CHANGE OF ADDRESS

It is the responsibility of the student to advise the Admissions Office of any change in either his legal or temporary address.

TRANSCRIPT REQUESTS

Upon request to the Admissions Officer, each student will be provided with two official copies of his college record without charge. For each copy after the second, a fee of one dollar is charged. Applications for transcripts should be filed at least two weeks before transcript is needed. Riverside City College will supply a transcript of records only of work taken at this institution.

CONCURRENT ENROLLMENT

Riverside City College extends an opportunity to eligible high school students who have completed the tenth grade to attend college
on a limited basis while attending high school. Concurrent enrollment is similar to the advanced placement programs that some other colleges offer. The student may choose to attend the fall, spring or summer session in either day or Extended Day classes.

Prior to the time of registration in college classes, the student must present a written recommendation from the high school principal that he be permitted to register at the college.

The Quadrangle's Cloistered Halls

COUNSELING CENTER

A variety of counseling services is provided at Riverside City College to assist students during their college career. Counselors are available to aid each student in making his own decisions concerning education and career directions.

Special courses are offered to assist each student in gaining the maximum benefit from his college experience.

Specific counseling services include personal counseling, group counseling, career development, academic guidance, and information regarding graduation requirements and requirements for transferring to four-year colleges and universities.

How to Use the Counseling Center

Students may make appointments with the secretary in the Counseling Center, which is open Monday through Friday, 8 a.m. to 4:30 p.m. Counseling for Extended Day students is available 6 p.m. to 9 p.m., Monday through Thursday. It is important to keep appointments.

Educational and Occupational Information

College and university catalogs are kept in the Career Center. These are useful in selecting a college for transfer and in planning lower division programs. The Career Center has extensive occupational information, including films, film strips, tapes and printed material.

Special Testing

Various tests of occupational interest and aptitude are available. The student should consult his counselor for further information.

Vocational Counseling

Vocational Counseling is available in the Counseling Center to all students who seek such assistance. Appointments may be made with the counseling secretary.

STUDENT SERVICES

Dean of Student Personnel Services

All student services and student government activities are the responsibility of the Dean of Student Personnel Service, whose office is located in the Administration Building. However, offices of the Associate Dean of Student Personnel Services — Student Affairs, and of the Associate Dean of Student Personnel Services — Support Services, are located in the Student Center.
Health Services

The health fee provides accident insurance for students who are injured on campus. Other sickness and accident insurance may be purchased during the first month of each semester by those who desire to do so. All accidents should be reported to the College Nurse immediately. If they occur in the classroom, they should be reported first to the instructor, who will process the report.

Psychological services are available by a state licensed clinical psychologist and intern. All communication is strictly confidential.

Student Placement Service

The college maintains a placement service in the Student Center to assist graduates in finding full-time career positions and to help regularly enrolled students obtain suitable part-time employment related to their occupational objectives. Placement referrals are made on the basis of the student’s academic record and upon the possession of skills required by the employer. Since employers rely upon the college to furnish them with information helpful in evaluating applicants, the placement office works in close cooperation with instructors, division chairpersons and counselors.

It is the responsibility of the student seeking employment to register in the placement office and to report regularly after filing the initial application. Job applications may be filed between 8 a.m. and 4:30 p.m., Monday through Friday. There is no charge for the service. While every effort is made to find employment opportunities, the Student Placement Service cannot guarantee placement to all applicants.

Housing

Housing accommodations available to students are listed in the Placement Office; however, the college does not assume the responsibility for student residence.

A.S.R.C.C. Offices

Conference rooms and offices for the Associated Students of Riverside City College are located in the Student Center.

SPECIAL SUPPORTIVE SERVICES

Educational Opportunity Program

Special state funding is available to all students in financial need. Funds are limited, so students should apply at the earliest opportunity. Deadline dates for accepting applications is the first week of September for the fall semester and the third week in January for the spring semester. Student counselors are available on a daily basis to assist in application requirements, academic counseling and to provide information in many aspects dealing with the campus. Office is located in the Student Center.

Tutorial Department

Tutoring is available to all students in all subjects on a one-to-one basis as well as in group sessions. Students may apply at any time on a walk-in basis. The Tutorial Office is located in the Martin Luther King Library, Room 307.

Financial Aid

Riverside City College participates in the Work Study Program, EOP and the SEOG Grant Programs, Federally Insured Loans, the Federal Nursing Grant Program, and the BEOG Grant Program. Limited funds for small loans are available to eligible students for emergency purposes. Information concerning these programs or scholarships may be obtained in the Dean of Students Office and the EOP Office, both located in the Student Center.

ORGANIZATIONS

The college has many organizations with open membership on campus and classified as honorary, social service, and professional interest. Students are encouraged to form new organizations according to the simple procedure in the student handbook.

Honorary

Riverside City College had its own honor society from 1921 until 1953. In the spring of that year the college was granted membership in Alpha Gamma Sigma, the California community college honor society. Gamma Sigma chapter of Riverside City College was granted its charter on May 8, 1953.

Service-Social

Sororities and fraternities are student organizations which give a major part of their time for improvement of the campus and community through service projects. Although social events are planned throughout the year, the primary goal is to maintain high scholastic standards.

Other organizations, although they have many social objectives, also exist to provide various kinds of services to the college and to the larger community as well. Among these are Alpha Gamma Sigma (scholarship society), Progressive Black Students Association, MECHA (Movimiento Estudiantil Chicanos de Aztlán), Native American Students, Newman Club, Veterans Club, and Soccer Club.

Professional Interest Groups

The following professional interest groups are active on campus:

- Beta Phi Gamma, a national journalism fraternity open to both men and women.
- Cosmos, an organization of students in the Cosmetology program.
- Engineering Club.
- Future Secretaries.
- Kappa Kappa Chi, a campus organization of students enrolled in the R.N. and L.V.N. programs.
- Phi Rho Pi, national junior college speech honorary.
- Delta Psi Omega, made up of students interested in dramatics.
- VICA (Vocational Clubs of America)
- Circuit Breakers
Handicapped Students

Students who are hearing impaired or orthopedically handicapped are eligible for assistance. Services provided such students are dictated by individual needs.

The State Department of Rehabilitation also offers services to aid students who have physical, emotional, or other disabilities which handicap them in obtaining employment.

THE ARTS

Art

Painting, drawing, ceramics and sculpture students exhibit their work during the Christmas season and again in the spring. Art students also contribute frequently to college publications.

Music

Musical activities are a significant part of college life. These activities include instrumental, choral, and recital programs, and the annual musical comedy.

Musical organizations include the college choir, chamber singers, and wind and jazz ensembles.

Choral and instrumental groups represent the college at the annual festivals presented by the combined community colleges of Southern California. College choral and instrumental groups give numerous performances throughout the valley.

Drama, Speech, and Forensics

Several plays and a musical comedy highlight the annual drama program. These A.S.R.C.C. sponsored productions are open to the general public as well as to the student body. Students interested in competitive speech activities, including intercollegiate debate, may have an opportunity to participate in the Pacific Southwest Collegiate Forensic Association and Phi Rho Pi (national community college speech fraternity) tournaments by enrolling in the forensics and debate classes and taking part in the Forensic Association activities.

Dance

The Riverside City College Performing Modern Dance Group, formerly Orchesis, is made up of members of the Advanced Modern Dance Class. They have opportunities to present lecture demonstrations and dance concerts and to participate in the college musicals.

Film Series

The College annually sponsors a free series of film classics open to students and the general public. Those who wish to remain after the showing of the films for lecture and discussion are welcome. The series is also open to registered students as a one-unit course, English 37, Film Appreciation.

Artist-Lecture Series

The Riverside City College Artist-Lecture Series is open to the students as well as the general public. Typically the series includes lectures on topics of current interest and performing artists of distinction.

PUBLICATIONS

Student publications include: Viewpoints, the weekly student body newspaper; the student handbook; and Tiger Talk, the weekly college bulletin announcing campus activities and events.

ATHLETICS

The College maintains a program of intercollegiate athletics as a member of the Mission Conference of the California Community and Junior College Association in the following sports — football, basketball, wrestling, cross country, water polo, swimming, track, baseball, golf and tennis. The college also conducts a program of intercollegiate athletics for women. Questions about athletic eligibility should be directed to the Associate Dean of Student Personnel Services, Student Affairs.

Members of many campus organizations, and non-affiliated students as well, also have the opportunity of participating in a variety of intramural sports and in extramural competition with other colleges in tennis, badminton, bowling and archery.

STUDENT GOVERNMENT

The opportunity of self-government is extended to students. Principal governing bodies are the Executive Board, which is elective, and the Forum, which is made up of representatives of all student organizations on campus. Student volunteers are solicited in planning and organizing student body projects.

SOCIAL EVENTS

An extensive program of social activities is provided by the Associated Student Body. A master calendar of these events is maintained in the Student Center.

DISCIPLINE

It is understood that each student who registers at the College is in sympathy with its purposes and will cooperate in carrying out these purposes by adhering to the regulations governing student behavior.
CURRICULAR PATTERNS

TRANSFER PROGRAMS

Each institution of higher education has its own requirements for admission, majors, and general education. The student should consult the catalog of the college or university to which he intends to transfer for its requirements. Catalogs of other institutions are on file in the Counseling Center. Course descriptions should be examined carefully to determine if a Riverside City College course is the equivalent of the course required by the transfer institution. The counseling staff can be helpful here.

Note that the following majors are for specific colleges and universities. Requirements for the same major at other institutions may be different. These are merely a few samples of the many majors available and represent, for the most part, those of nearby colleges and universities.

In developing a program it should be remembered that in addition to the requirements in the major, each student should complete the general breadth requirements for the college of his choice. State University and College requirements are listed on pages 20 ff. Breadth requirements for all branches of the University of California and various private colleges are available in the Counseling Center. Proper planning normally should enable students to satisfy the general education-breadth requirements concurrently with requirements for graduation from Riverside City College. See the Associate in Arts degree requirements on pages 26-27.

ACCOUNTING

Cal Poly Pomona
Accounting I-A, I-B, 61; Business Administration 18-A, 18-B; Business Education 60; Data Processing 1, 2, 20; Economics 7, 8; Math 5-A, 5-B, 12; English 1-A, 1-B; Speech 1; Psychology 1; History 6, 7

CSU Fullerton
Accounting 1-A, 1-B; Business Administration 18-A; Data Processing 12-A and Mathematics 25; Economics 7, 8

CSU Long Beach
Accounting 1-A, 1-B; Business Administration 18-A; Data Processing 1, 2; Economics 7, 8; Math 5-A, 5-B; Philosophy 12 or 32
**ADMINISTRATION OF JUSTICE**

- **CSU Long Beach**
  - Corrections Option: Psychology 33
  - Criminalistics Option: Anatomy and Physiology 2-A or Botany 1 or Microbiology 1 or Zoology 1; Chemistry 1-A, 1-B, 5; Math 10; Physics 2-A, 2-B

- **CSU Los Angeles**
  - Administration of Justice 1, 2, 3, 4, 5, 6, 7, 13; Political Science 1; Psychology 1; Sociology 1

- **CSU San Diego**
  - Math 12; Political Science 1; Sociology 1; Psychology 1

- **CSC San Bernardino**
  - Administration of Justice 1, 2, 3, 4, 5; Psychology 1

**AGRI-BUSINESS**

- **Cal Poly Pomona**
  - Agri-Business 10, 13, 20; Business Administration 18-A; Data Processing 1; Economics 7, 8; English 1-A; Math 12, 35; Speech 1; Political Science 1; History 7
  - Options are available in Agricultural Economics, Food Distribution and Management

**ANTHROPOLOGY**

- **CSC San Bernardino**
  - Anthropology 1, 2

- **CSU Fullerton**
  - Anthropology 1, 2, 3

- **UC Riverside**
  - Anthropology 1, 2, 3

- **U of So. Cal.**
  - Anthropology 1, 2; Foreign Language 1, 2, 3

**APPLIED SCIENCE**

- **UC Riverside**
  - Chemistry 1-A, 1-B, 5; English 1-A, 1-B; Geology 1-A; Math 1-A, 1-B, 2-A, 2-B, 8; Physics 4-A, 4-B, 4-C, 4-D
  - Options available are Instrumentation, Automated Instrumentation, and Computer Science

**ART**

- **CSC San Bernardino**
  - Art 1, 2, 4-A, 4-B, 23
  - Art History Emphasis: Art 1, 2; 6 units in studio courses; 12 units in Art, Anthropology, Foreign Language; History, Literature; Music; Philosophy or Theater Arts
  - Studio Emphasis: Art 1, 2, 4-A, 4-B, 22, 23, 40, 48-A, 48-B
  - Teaching Emphasis: Art 1, 2, 4-A, 4-B, 15, 22, 23, 40

- **CSU Fullerton**
  - Art History Emphasis: Art 1, 2
  - Studio Emphasis: Art 4-A, 4-B, 1, 2

**BIOLOGY**

- **CSC San Bernardino**
  - Biology 1, 11; Chemistry 1-A, 1-B, 12-A, 12-B; Math 10 or 12 or 5-A; Physics 2-A, 2-B or 4-A, 4-B

- **CSU Fullerton**
  - Biology 1, 11; Chemistry 1-A, 1-B, 12-A, 12-B; Math 1-A; Physics 2-A, 2-B

- **UC Riverside**
  - Biology 1, 11; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Foreign Languages 3 semesters (suggested Russian, German, French); Math 1-A, 1-B, Physics 2-A, 2-B or 4-A, 4-B; Humanities and Social Sciences (21 units). Foreign language is not required for the B.S. degree.

- **U of So. Cal.**
  - Biology 1, 11; Chemistry 1-A, 1-B; Foreign Language 1, 2, 3; Math 1-A; Physics 2-A, 2-B
Transfer Programs

BLACK STUDIES
Cal Poly Pomona: English 16, 20; History 15; Philosophy 14
CSC San Bernardino: Concentration within other bachelor's degree majors. Check the handout sheets in the Career Center library for various options
UC Riverside: English 1-A, 1-B; additional courses which can be used to fulfill general education requirements: English 16; History 14, 15; Humanities 45; Philosophy 14

BOTANY
Cal Poly Pomona: Biology 1; Botany 1, 2, 3; Chemistry 2-A or 1-A, 2-B or 1-B, 8; English 1-A, History 6, 7; Math 36, 10; Microbiology 1, Physics 2-A, 2-B; Zoology 1, 2
UC Riverside: Biology 1, 11; Botany 1, 3; Chemistry 1-A, 1-B, 12-A, 12-B; Math 1-A, 1-B; Physics 2-A, 2-B
CSU Long Beach: Botany 1; Chemistry 1-A, 1-B; Math 10, 1-A or 5-A; Microbiology 1; Physics 2-A, 2-B; Zoology 2

BUSINESS ADMINISTRATION
Cal Poly Pomona: Accounting 1-A, 1-B; Business Administration 10, 18-A, 18-B; Business Education 60; Data Processing 1, 20; Economics 7, 8; English 1-Aa, 1-B; Math 12; Psychology 1; Speech 1
CSC San Bernardino: Accounting 1-A, 1-B; Economics 7, 8; Math 35, 12; Data Processing 1
CSU Fullerton: Accounting 1-A, 1-B; Data Processing 12-A; Math 25; Economics 7, 8; Business Administration 18-A; Math 1-A or 5-A

CHEMISTRY
Cal Poly Pomona: Biology 1; Chemistry 1-A, 1-B, 5, 12-A, 12-B; English 1-A, 1-B; Math 1-A, 1-B, 2-A, 2-B; Physics 4-ABC; History 6, 7; English 1-A, 1-B
CSC San Bernardino: Chemistry 1-A, 1-B, 5; Math 1-A, 1-B, 2-A; Physics 2-A, 2-B or 4-A, 4-B
UC Riverside: Chemistry 1-A, 1-B, 5 (12-A, 12-B for A.B. degree); Math 1-A, 1-B; Physics 4-A, 4-B, 4-C; and a reading knowledge of German or Russian is recommended; English 1-A, 1-B
CSU Fullerton: Chemistry 1-A, 1-B, 5, 12-A, 12-B; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C; Biological Science; and a reading knowledge of French, German or Russian is recommended

CHICANO STUDIES
CSU Pomona: History 30, 31; English 20; Spanish 4
CSU Fullerton: History 25, 30, 31; English 20
CSU Long Beach: History 30; English 20; Spanish 1, 2, 3, 4
UC Riverside: English 1-A, 1-B; Spanish 4; 6 units of natural sciences; 3 courses in Mexican-American Studies

DATA PROCESSING
Cal Poly Pomona: Accounting 1-A, 1-B, 61; Business Administration 18-A, 18-B; Data Processing 1, 2, 13-A, 20
Support courses: Economics 7, 8; English 1-A; History 6, 7; Math 5-A, 5-B, 12; Psychology 1; Speech 1
CSU Fullerton: Accounting 1-A, 1-B; Data Processing 12-A; Economics 7, 8; Math 1-A, 25; Business Administration 18-A (Quan. Methods Option)
Transfer Programs

DENTAL HYGIENE

UC San Francisco
UC Dental Hygiene Performance Test; Biology 1, 11; Chemistry 1-A, 1-B, 8; English 1-A, 1-B; History 6 and 7 or History 6 or 7 and Political Science 1; Physics 2-A, 2-B; Psychology 1 and 4 or 33; 20 units from Social Sciences, Humanities or Foreign Languages

Loma Linda Univ.
Chemistry 1-A, 1-B or 2-A, 2-B, 22; English 1-A, 1-B; Speech 1; Zoology 1, 2; Social Sciences — 12 units from Anthropology, Economics, History, Psychology, Sociology, Humanities — 10 units from Art, Foreign Language, Literature, Philosophy, Music

Univ. of So. Cal
Biology 1, plus one additional course in Biological Sciences; Chemistry 1-A, 1-B; English 1-AB; Psychology 1; Sociology 1; Speech 1; Health Science 1

Pre-DENTISTRY

UC Los Angeles
Biology 1, 11; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Physics 2-A, 2-B; Psychology 1; Social Sciences and/or Humanities — 12 units

UC San Francisco
Biology 1; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Psychology 1; Psychology 2, 4 or 33; Physics 2-A, 2-B; Social Sciences, Humanities, or Foreign Languages — 11 units; Zoology 2

Loma Linda Univ.
Biology 1, 11 or Zoology 1, 2; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Physics 2-A, 2-B; to complete 64 units select from: Anthropology, Art, Foreign Language, History, Literature, Psychology, Sociology, Speech, Math (Calculus)

ECONOMICS

Cal Poly Pomona
Accounting 1-A, 1-B; Economics 7, 8; English 1-A, 1-B; Speech 1; History 6, 7

CSC San Bernardino
Economics 7, 8; Math 12 (Math 5-A is highly recommended)

CSU Fullerton
Accounting 1-A, 1-B; Math 1-A, 1-B or 5-A; Data Processing 12-A and Math 25; Economics 7, 8

UC Riverside
Economics 7, 8

Transfer Programs

EDUCATION — TEACHING

For the student seeking a California Teaching Credential, a degree in Education does not exist. The major consists of a single-subject and/or a multiple-subject major. Upon transferring from the community college, the prospective teacher must affiliate himself with a four-year institution which has a teacher education program accredited by the California Commission for Teacher Preparation and Licensing.

Community College
The student planning to teach at the community college level must complete at least a master's degree in a subject matter area normally taught in the community college. The credential will carry a list of subjects which the holder is authorized to teach.

Vocational
For teaching in occupational areas, a combination of work experience in the field (normally seven years) and education is needed.

ENGINEERING — MECHANICAL

Cal Poly Pomona
Chemistry 1-A, 1-B; Economics 8; Engineering 22, 23; English 1-A; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C; History 6, 7

UC Irvine
Chemistry 1-A, 1-B; Engineering 22, 23, 35; Math 1-A, 1-B, 2-A, 2-B, 8; Physics 4-A, 4-B, 4-C

Univ. of So. Cal.
Chemistry 1-A; English 1-A; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C; Psychology 1

ENGLISH

Cal Poly Pomona
Art 5, English 6, 7, 14, 15, 40, 49; French 2 or Spanish 2 or German 2; History 4 or 5; Music 19; Psychology 1; Speech 1; History 6, 7

CSC San Bernardino
English 6, 7, 14 or 15

CSU Fullerton
4 courses from: English 11-A, 40, 41, 44, 45, 48

(English continued on Page 48)
Transfer Programs

ENGLISH — (Continued)

CSU Long Beach  English 6, 7, 49
CSU Los Angeles  English 44, 45, 48
CSU San Diego  English 6, 7, 14, 15 (electives: 3 units)
UC Riverside  English 6, 7, 14 or 15; Foreign Language 1, 2, 3
Univ. of So. Cal.  English 6, 7; Recommended — History 6, 7; Philosophy 13, 21, 32; English 1-B, 49, 50

ENVIRONMENTAL SCIENCE

CSC San Bernardino  Major is called Environmental Studies. Biology 16; Chemistry 1-A or 2-A; Geography 1; Math 12; Physics 10, 11
UC Riverside  Biology 1, 11; Chemistry 1-A, 1-B, Math 10, 12; Options under Physical-Biological and Social-Political-Economic have additional requirements

FORESTRY & CONSERVATION

UC Berkeley  Botany 1; Chemistry 1-A, 1-B or 2-A, 2-B; Economics 7, 8; Engineering 1-A; English 1-A, 1-B; Geology 1-A; Math 1-A, 1-B, 12; Physics 2-A, 2-B; Zoology 1 or Zoology 2 or Microbiology 1 or Biology 1

FOREST MANAGEMENT, FOREST SCIENCE AND WILDLIFE MANAGEMENT

CSC Humbolt  Biology 1, 11; Botany 1; Chemistry 1-A; Math 8, 5-A or 1-A; Physics 2-A
Wildlife Management majors do not need Math or Physics. Chemistry 1-B; Math 35; Zoology 2; Math 5-A or 1-A is recommended but not required.

GEOLOGY

Cal Poly Pomona  Geology 1-A, 1-B; Engineering 22, 22; Math 1-A, 1-B; Chemistry 1-A, 1-B; Economics 8; Physics 4-A, 4-B, 4-C; Psychology 1; Speech 1; Zoology 1; History 6, 7; Biology 1

Cal Poly Pomona (Earth Sciences)  Geology 1-A, 1-B; Engineering 22, 22; Math 1-A, 1-B; Chemistry 1-A, 1-B; Economics 8; Physics 4-A, 4-B, 4-C; Psychology 1; Speech 1; Zoology 1; History 6, 7; Biology 1

CSU San Diego  Biology 1; Chemistry 1-A, 1-B; Geology 1-A, 1-B, 21; Math 1-A, 12; Physics 4-A, 4-B, 4-C

UC Riverside  Biology 1; Chemistry 1-A, 1-B; Math 1-A, 1-B, 12; Physics 4-A, 4-B, 4-C; Zoology 1 or Biology 11; Geology 1-A, 1-B, 21

Univ. of So. Cal.  Geology 1-A, 1-B, 21; Chemistry 1-A, 1-B; Foreign Language 1, 2, 3; Math 8, 10, 1-A, 1-B; Physics 2-A, 2-B

HEALTH SCIENCE

CSU Long Beach  School Health Option: Anatomy and Physiology 2-A, 2-B; Biology 1; Chemistry 2-A; Microbiology 1; Psychology 1
Community Health Education Option: Anatomy and Physiology 2-A; Anthropology 2; Biology 1; Chemistry 2-A; Microbiology 1; Psychology 1; Sociology 2

Cal Poly Pomona  Anatomy and Physiology 2-A; Biology 30; Physical Education 44; Home Economics 4; Psychology 1; Sociology 1

CSU San Diego  Anatomy and Physiology 2-A; Biology 30; Physical Education 44; Home Economics 4; Psychology 1; Sociology 1

HISTORY

Cal Poly Pomona  Anthropology 1, 2 or Sociology 1, 2; Economics 7, 8; English 1-A, 1-B; History 4, 5, 6, 7; Political Science 1; Psychology 1; Speech 1

CSC San Bernardino  History 6, 7

CSU Fullerton  History 4, 5, 6, 7, 8, 9, 14, 20 (choose four)

UC Riverside  No required courses. Recommended: Survey courses in Asian, European & American History

Loma Linda Univ.  History 4, 5, 6, 7
Transfer Programs

HOME ECONOMICS

Cal Poly Pomona
Anatomy and Physiology 2-A, 2-B; Biology 1; Chemistry 2-A, 2-B, 8; Economics 7; English 1-A, 1-B; Health Science 1; Home Economics 1, 4, 5, 20; Math 35; Psychology 1; Sociology 1, 12; Speech 1; History 6, 7; Early Childhood 7

CSU Long Beach
Anatomy and Physiology 2-A, 2-B; Chemistry 1-A or 2-A; Economics 7, 8; English 1-A; 1-B; Psychology 1; Sociology 1 or 2 or Anthropology 2

CSU San Diego
Anthropology 2 or Sociology 1; Art 22; Chemistry 2-A, 2-B; Early Childhood 7; Home Economics 1, 4, 20, 30; Economics 4 or 7 or 8; Sociology 12

INDUSTRIAL ARTS

CSU Long Beach
Auto Tech 50; Electronics 10; Engineering 50; Graphic Arts 1; Photography 8; Welding 15-A

CSU San Diego
Auto Tech 60-A; Electronics 10; Engineering 50; Graphic Arts 1; Photography 8; Welding 15-A

JOURNALISM

Cal Poly Pomona (Communication Arts)
Journalism 1, 2, 7; Photography 8, 12; Graphic Arts 1 or 30; support courses: Economics 7, 8; English 1-A, 1-B; History 6, 7; Library 1; Political Science 1; Psychology 1; Speech 1; Philosophy 32; Sociology 1

CSU Fullerton (Communications)
Journalism 1, 2, 7; Photography 8

CSU Long Beach
Journalism 1, 2, 7, 12

Pre-LAW

Admission to most law schools requires a bachelor’s degree from an accredited college or university. The major can be in any academic discipline, but the student must have achieved a good grade point average. Undergraduate courses should provide an adequate foundation for broad culture: English, History, Philosophy, Math and Logic, Science, Economics, Political Science, Psychology, Sociology, Anthropology, Speech and Debate.

MATHMATICS

Cal Poly Pomona
Chemistry 1-A, 1-B; English 1-A, 1-B; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C; History 6, 7

CSC San Bernardino
Math 1-A, 1-B, 2-A, 2-B, 8; Physics 4-A, 4-B, 4-C recommended

UC Riverside
Math 1-A, 1-B, 2-A, 2-B; recommended: Physics 4-A, 4-B, 4-C; Foreign Language 1, 2, 3

Pre-MEDICINE

Below are suggested courses to take at RCC if you plan to major in pre-med and attend one of the medical schools below:

UC Irvine
Biology 1, 11 and Zoology 1 or 2; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Math 1-A, 1-B or 5-A, 5-B; Physics 2-A, 2-B or 4-A, 4-B

UC Los Angeles
Biology 1, 11 or Zoology 1, 2; Chemistry 1-A, 1-B, 12-A, 12-B, 22; English 1-A, 1-B; Math 1-A, 1-B or 5-A, 5-B, 10; Physics 2-A, 2-B or 4-A, 4-B

Loma Linda Univ.
Biology 1, 11 or Zoology 1, 2; Chemistry 1-A, 1-B, 12-A, 12-B; English 1-A, 1-B; Math 1-A or 5-A; Physics 2-A, 2-B

MICROBIOLOGY

Cal Poly Pomona
Biology 1; Botany 2; Chemistry 1-A or 2-A, 1-B or 2-B, 5, 12-A, 12-B; English 1-A, 1-B; Math 10, 36; Microbiology 1; Physics 2-A, 2-B; Zoology 1, 2; History 6, 7

CSU Long Beach
Chemistry 1-A, 1-B, 5; Math 10 or 5-A; Microbiology 1; Physics 2-A, 2-B; Zoology 2

CSU Los Angeles
Botany 1; Chemistry 1-A, 1-B, 5; Math 10, 36; Microbiology 1; Physics 2-A, 2-B; Zoology 1

UC Riverside
B.A. Degree: Biology 1, 11; Chemistry 1-A, 1-B, 5, 12-A, 12-B; English 1-A, 1-B; Math 1-A, 1-B or 5-A, 5-B; Physics 2-A, 2-B; completion of course 3 in Russian, German, or French, Math 12 is recommended

B.S. Degree: lower division requirements are the same as for the B.A. with the exception that foreign language is not required.
### Transfer Programs

#### MUSIC

**CSU Fullerton**  
Music 3, 4, 5, 20 or 21; four semesters from Music 40-ABCD, 41-ABCD, 42-ABCD, 43-ABCD or 44-ABCD; four semesters from Music 39-ABCD, 32-ABCD, 35-ABCD or 38-ABCD

**Univ. of Redlands**  
Music 3, 4, 5, 7; not more than 18 units in applied and/or ensemble music. A background of music history, while not required, is strongly recommended. Piano proficiency is required.

**Univ. of So. Cal.**  
Music 3, 4, 5, 7; Music 20, 21; four semesters of either Music 40-ABCD, 41-ABCD, 42-ABCD, 43-ABCD; Music 32-ABCD or proficiency exam; four semesters of either Music 30-ABCD, 32-ABCD, 35-ABCD or 38-ABCD

#### NURSING — B.S. DEGREE

**CSU Long Beach**  
Anatomy and Physiology 2-A, 2-B; Chemistry 2-A; Microbiology 1; two social science courses

**CSU Los Angeles**  
Anatomy and Physiology 2-A, 2-B; Anthropology 2; Chemistry 1-A, 1-B or 2-A, 2-B; Home Economics 1; Psychology 1; Sociology 1; Microbiology 1

**CSU San Diego**  
Anatomy and Physiology 2-A, 2-B; Chemistry 1-A, 1-B, 12-A; Early Childhood Studies 7; Microbiology 1; Psychology 1, 33; Sociology 1, 12

**UC Los Angeles**  
Anthropology 2; Biology 1, 11 or Zoology 1, 2; Chemistry 1-A, 1-B; English 1-A; Microbiology 1; Physics 10, 11; Psychology 1, 2; Sociology 1

#### PHARMACY

**UC San Francisco**  
Chemistry 1-A, 1-B, 5; English 1-A, 1-B; Math 1-A, 1-B or 5-A, 5-B; Physics 2-A, 2-B; Zoology 1, 2 or Biology 1, 11

**Univ. of Pacific**  
Biology 1, 11 or Botany 1 and Zoology 1 or 2; Chemistry 1-A, 1-B; Math 35, 36, 5-A; Physics 2-A; Zoology 2; Choose 6-8 units from: English 1-A; Foreign Languages; Speech 1; Theater Arts 3; Choose 6-8 units from: Anthropology 1, 2; Psychology 1; Sociology 1

(Pharmacy continued on Page 53)
## Transfer Programs

### PHYSICAL THERAPY — (Continued)

**Univ. of Cal. (San Francisco)**

- Anatomy and Physiology 2-A, 2-B; Chemistry 1-A, 1-B; English 1-A, 1-B; Humanities — 9 units; Physics 10, 11; Psychology 33; Social Sciences — 9 units

**Loma Linda Univ.**

- English 1-A, 1-B (6 units)
- Biology 1, 11 or Zoology 1, 2; Microbiology 1; Chemistry 1-A, 1-B or 2-A, 2-B; Physics 10, 11
- Humanities (9 units) from: Foreign Language, Literature, Philosophy, Western Civilization (may count in Humanities or Social Sciences), Art, Music, Social Sciences (9 units) from: Anthropology, Sociology (recommended) Psychology 1 (required), Economics, Geography, History, Political Science

### PHYSICS

**Cal Poly Pomona**

- Biology 1; Chemistry 1-A, 1-B; English 1-A, 1-B; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C, 4-D; History 6, 7

**CSC San Bernardino**

- Chemistry 1-A; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C

**UC Riverside**

- Chemistry 1-A, 1-B; Math 1-A, 1-B, 2-A, 2-B; Physics 4-A, 4-B, 4-C, 4-D
- A reading knowledge of French or German is recommended.

**Univ. of So. Cal.**

- Chemistry 1-A, 1-B; French or German 1, 2, 3 recommended; Math 1-A, 1-B, 2-A; Physics 4-A, 4-B, 4-C

### PODIATRY

**Calif. Podiatry College, San Francisco**

- Chemistry 1-A, 1-B, 8; Physics 2-A; Zoology 1, 2; English 1-A, 1-B

### POLITICAL SCIENCE

**Cal Poly Pomona**

- English 1-A, 1-B; History 6, 7; Political Science 1, 2, 3

**CSC San Bernardino**

- Math 12 (Recommended); Political Science 1, 3, 4

**UC Riverside**

- Two courses: Political Science 1, 2, 4

### PSYCHOLOGY

**Cal Poly Pomona (Behavioral Sciences)**

- Anthropology 2; English 1-A; Psychology 1; Sociology 1, 2; History 6, 7

**CSC San Bernardino**

- Math 12; Psychology 1, 2

**UC Riverside**

- English 1-A, 1-B; Psychology 1, 2; Biology 1, 11 or Zoology 1; 6 units in physical sciences; 6 units in social sciences; 16 units in humanities

**Univ. of So. Cal.**

- Foreign Language 1, 2, 3; Math 12; Psychology 1

### RESOURCE SCIENCES

**Cal Poly San Luis Obispo (Natural Resources Management)**

- Botany 1, 2; Chemistry 1-A; English 1-A, 1-B; Geology 1-A; Health Science 1; Math 12, any beyond 18 (need 6 units); Physics 2-A; Speech 1; Zoology 1, 2; Biology 36; Geography 1; Psychology 1; Business Administration 18-A; Economics 7 or 8; Political Science 1; History 6 or 7

**UC Davis (Renewable Natural Resources)**

- Agri-Business 12 or 13, 23; Biology 1; English 1-A, 1-B; Geology 1-A or Geography 1; Math 12; choose 10 units from: Biology 7, 11, 36; Botany 1, 2, 3; Zoology 1, 2; choose 15 units from: Chemistry 1-A, 1-B, 8, 12-A, 12-B or 22; Physics 2-a, 3-B, 4-A, 4-B, 4-C, 4-D

### SOCIAL SCIENCES

**Cal Poly Pomona**

- Anthropology 1, 2; Economics 7; English 1-A, 1-B; Geography 1, 2; History 4, 5, 6, 7; Humanities 16; Philosophy 12, 10 or 32; Psychology 1; Sociology 1; Political Science 2

**CSC San Bernardino**

- A minimum of seven courses in one of the following fields, plus three courses each in two other fields: Administration, Anthropology, Economics, Geography, History, Political Science, Psychology and Sociology; Math 12. Seven courses must be upper division; six courses may be lower division

**Univ. of So. Cal**

- Lower Division requirements must be met for the department of concentration. Specific combinations of courses must be approved by the de-
Transfer Programs

SOCIAL SCIENCES—Continued

Department of chief interest. Economics concentration: Economics 7, 8; History concentration: two transferable courses from history or political science; Political Science concentration: Political Science 1; Psychology concentration: Psychology 1, Math 12; Anthropology concentration: Anthropology 1, 2; Sociology concentration: Sociology 1. International Relations concentration: Economics 7, 8; Political Science 4.

SOCIAL WELFARE

CSU Long Beach

Anthropology 2; Anatomy and Physiology 2-A; Math 12; Sociology 1; Psychology 1

CSU San Diego

Anthropology 2; Economics 7, 8; Math 12; Political Science 1, 3; Psychology 1; Sociology 1; recommended Biology 1

SOCIOLOGY

CSC San Bernardino

Math 12; Sociology 1, 2

CSU Fullerton

Sociology 1, 2

CSU Long Beach

Anthropology 2; Math 12; Sociology 1, 2

CSU Los Angeles

Math 12; Sociology 1

CSU San Diego

Math 12; Sociology 1, 2

UC Riverside

Sociology 1; English 1-A, 1-B; 6 units of History; 6 units of Humanities; 8 units of Science/Math/Statistics; 6 units of Ethnic Studies (not sociology courses)

Univ. of So. Cal.

Foreign Language 1, 2, 3; Sociology 1

SPEECH

Cal Poly Pomona

(Communication Arts)

English 1-A, 1-B; History 6, 7; Journalism 1, 7; Library 1; Philosophy 32; Psychology 1; Speech 1, 2, 3-A, 4-A, 10-A, 10-B

CSU Fullerton

Speech 1, 3-A; up to six units of electives, which could include Speech 2, 4-A, 5, 7, 10-A

Univ. of So. Cal

Speech 1, 7; Foreign Language 1, 2, 3

THEATER ARTS

Cal Poly Pomona

(Drama)

English 1-A, 1-B, 9, 40 or 41; History 4 or 5, 6, 7; Theater Arts 3, 7, 10, 11, 13, 14, 17, 26, 27, 29-AB, 30-AB; one course each in Art, Music, Philosophy

CSU Long Beach

Theater Arts 3, 7, 10, 26, 29-A

UC Riverside

Theater Arts 10

ZOOOLOGY

Cal Poly Pomona

Biology 1; Botany 1, 2; Chemistry 2-A, 2-B, 8; English 1-A, Math 36, 10; Microbiology 1; Physics 2-A, 2-B; Zoology 1, 2; History 6, 7

CSU Long Beach

Botany 1; Chemistry 1-A, 1-B; Math 10, 5-A or 1-A; Physics 2-A, 2-B; Zoology 2

UC Riverside

Biology 1, 11; Botany 1, 3; Chemistry 1-A, 1-B; 12-A, 12-B; Math 5-A, 5-B or 1-A, 1-B; Physics 2-A, 2-B or 4-A, 4-B, 4-C; Zoology 1

Zoology Students Confer with Laboratory Instructor
**OCCUPATIONAL PROGRAMS**

<table>
<thead>
<tr>
<th>Certificate / Degree</th>
<th>For course patterns see page number</th>
<th>For course description see page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Clerk</td>
<td>X</td>
<td>61 ff</td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>X</td>
<td>61 ff</td>
</tr>
<tr>
<td>Agri-business</td>
<td>X</td>
<td>61 ff</td>
</tr>
<tr>
<td>Air Conditioning &amp; Refrigeration</td>
<td>X</td>
<td>62 ff</td>
</tr>
<tr>
<td>Apprentice Electrician Program</td>
<td>X</td>
<td>62 ff</td>
</tr>
<tr>
<td>Art-Commercial (Applied Design)</td>
<td>X</td>
<td>62 ff</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>X</td>
<td>63 ff</td>
</tr>
<tr>
<td>Banking &amp; Finance</td>
<td>X</td>
<td>64 ff</td>
</tr>
<tr>
<td>Business-Clerical</td>
<td>X</td>
<td>64 ff</td>
</tr>
<tr>
<td>Business-General</td>
<td>X</td>
<td>64 ff</td>
</tr>
<tr>
<td>Clerk-Typist</td>
<td>X</td>
<td>65 ff</td>
</tr>
<tr>
<td>Community Services</td>
<td>X</td>
<td>66 ff</td>
</tr>
<tr>
<td>Community Services Aide</td>
<td>X</td>
<td>66 ff</td>
</tr>
<tr>
<td>Instructional Aide</td>
<td>X</td>
<td>67 ff</td>
</tr>
<tr>
<td>Social Service Aide</td>
<td>X</td>
<td>66 ff</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>X</td>
<td>68 ff</td>
</tr>
<tr>
<td>Data Processing</td>
<td>X</td>
<td>69 ff</td>
</tr>
<tr>
<td>Dental Technology</td>
<td>X</td>
<td>70 ff</td>
</tr>
<tr>
<td>Drafting-Architectural</td>
<td>X</td>
<td>71 ff</td>
</tr>
<tr>
<td>Drafting-Mechanical</td>
<td>X</td>
<td>71 ff</td>
</tr>
<tr>
<td>Early Childhood Studies</td>
<td>X</td>
<td>72 ff</td>
</tr>
<tr>
<td>Electronics</td>
<td>X</td>
<td>73 ff</td>
</tr>
<tr>
<td>Emergency Medical Technician</td>
<td>X</td>
<td>74 ff</td>
</tr>
<tr>
<td>Engineering Aide</td>
<td>X</td>
<td>74 ff</td>
</tr>
<tr>
<td>Excise</td>
<td>X</td>
<td>75 ff</td>
</tr>
<tr>
<td>Fire Science</td>
<td>X</td>
<td>76 ff</td>
</tr>
<tr>
<td>Graphic Arts</td>
<td>X</td>
<td>77 ff</td>
</tr>
<tr>
<td>Copy Preparation &amp; Composition</td>
<td>X</td>
<td>78 ff</td>
</tr>
<tr>
<td>Letterpress Printing</td>
<td>X</td>
<td>79 ff</td>
</tr>
<tr>
<td>Offset Preparation</td>
<td>X</td>
<td>80 ff</td>
</tr>
<tr>
<td>Offset Presswork</td>
<td>X</td>
<td>81 ff</td>
</tr>
<tr>
<td>Home Economics</td>
<td>X</td>
<td>82 ff</td>
</tr>
<tr>
<td>General</td>
<td>X</td>
<td>83 ff</td>
</tr>
<tr>
<td>Clothing</td>
<td>X</td>
<td>84 ff</td>
</tr>
<tr>
<td>Dietetic Assistant Specialization</td>
<td>X</td>
<td>85 ff</td>
</tr>
<tr>
<td>School Food Services</td>
<td>X</td>
<td>86 ff</td>
</tr>
<tr>
<td>Specialization</td>
<td>X</td>
<td>87 ff</td>
</tr>
<tr>
<td>Food Services</td>
<td>X</td>
<td>88 ff</td>
</tr>
<tr>
<td>Journalism</td>
<td>X</td>
<td>89 ff</td>
</tr>
<tr>
<td>Library Clerk</td>
<td>X</td>
<td>90 ff</td>
</tr>
<tr>
<td>Library Technical Assistant</td>
<td>X</td>
<td>91 ff</td>
</tr>
<tr>
<td>Manufacturing Technology</td>
<td>X</td>
<td>92 ff</td>
</tr>
<tr>
<td>Marketing</td>
<td>X</td>
<td>93 ff</td>
</tr>
<tr>
<td>Medical Assisting</td>
<td>X</td>
<td>94 ff</td>
</tr>
<tr>
<td>Merchandising</td>
<td>X</td>
<td>95 ff</td>
</tr>
<tr>
<td>Middle Management</td>
<td>X</td>
<td>96 ff</td>
</tr>
<tr>
<td>Nursing</td>
<td>X</td>
<td>97 ff</td>
</tr>
<tr>
<td>Registered</td>
<td>X</td>
<td>98 ff</td>
</tr>
<tr>
<td>Vocational</td>
<td>X</td>
<td>99 ff</td>
</tr>
<tr>
<td>Paramedics</td>
<td>X</td>
<td>100 ff</td>
</tr>
<tr>
<td>Photography</td>
<td>X</td>
<td>101 ff</td>
</tr>
<tr>
<td>Real Estate</td>
<td>X</td>
<td>102 ff</td>
</tr>
<tr>
<td>Resident Counselor</td>
<td>X</td>
<td>103 ff</td>
</tr>
<tr>
<td>Secretarial</td>
<td>X</td>
<td>104 ff</td>
</tr>
<tr>
<td>Secretarial Medical</td>
<td>X</td>
<td>105 ff</td>
</tr>
<tr>
<td>Stenography</td>
<td>X</td>
<td>106 ff</td>
</tr>
<tr>
<td>Structural Inspection</td>
<td>X</td>
<td>107 ff</td>
</tr>
<tr>
<td>Supervisory Training</td>
<td>X</td>
<td>108 ff</td>
</tr>
<tr>
<td>Surveying Technology</td>
<td>X</td>
<td>109 ff</td>
</tr>
<tr>
<td>Welding</td>
<td>X</td>
<td>110 ff</td>
</tr>
</tbody>
</table>

**OTHER OCCUPATIONALLY ORIENTED COURSES**

<table>
<thead>
<tr>
<th>For course patterns see page number</th>
<th>For course description see page number</th>
<th>For course patterns see page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accountancy</td>
<td>61 ff</td>
<td>61 ff</td>
</tr>
<tr>
<td>Administration of Justice</td>
<td>61 ff</td>
<td>61 ff</td>
</tr>
<tr>
<td>Agri-business</td>
<td>61 ff</td>
<td>61 ff</td>
</tr>
<tr>
<td>Air Conditioning &amp; Refrigeration</td>
<td>62 ff</td>
<td>62 ff</td>
</tr>
<tr>
<td>Apprentice Electrician Program</td>
<td>62 ff</td>
<td>62 ff</td>
</tr>
<tr>
<td>Art-Commercial (Applied Design)</td>
<td>62 ff</td>
<td>62 ff</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>63 ff</td>
<td>63 ff</td>
</tr>
<tr>
<td>Banking &amp; Finance</td>
<td>64 ff</td>
<td>64 ff</td>
</tr>
<tr>
<td>Business-Clerical</td>
<td>64 ff</td>
<td>64 ff</td>
</tr>
<tr>
<td>Business-General</td>
<td>64 ff</td>
<td>64 ff</td>
</tr>
<tr>
<td>Clerk-Typist</td>
<td>65 ff</td>
<td>65 ff</td>
</tr>
<tr>
<td>Community Services</td>
<td>66 ff</td>
<td>66 ff</td>
</tr>
<tr>
<td>Community Services Aide</td>
<td>66 ff</td>
<td>66 ff</td>
</tr>
<tr>
<td>Instructional Aide</td>
<td>67 ff</td>
<td>67 ff</td>
</tr>
<tr>
<td>Social Service Aide</td>
<td>66 ff</td>
<td>66 ff</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>68 ff</td>
<td>68 ff</td>
</tr>
<tr>
<td>Data Processing</td>
<td>69 ff</td>
<td>69 ff</td>
</tr>
<tr>
<td>Dental Technology</td>
<td>70 ff</td>
<td>70 ff</td>
</tr>
<tr>
<td>Drafting-Architectural</td>
<td>71 ff</td>
<td>71 ff</td>
</tr>
<tr>
<td>Drafting-Mechanical</td>
<td>71 ff</td>
<td>71 ff</td>
</tr>
<tr>
<td>Early Childhood Studies</td>
<td>72 ff</td>
<td>72 ff</td>
</tr>
<tr>
<td>Electronics</td>
<td>73 ff</td>
<td>73 ff</td>
</tr>
<tr>
<td>Emergency Medical Technician</td>
<td>74 ff</td>
<td>74 ff</td>
</tr>
<tr>
<td>Engineering Aide</td>
<td>75 ff</td>
<td>75 ff</td>
</tr>
<tr>
<td>Excise</td>
<td>76 ff</td>
<td>76 ff</td>
</tr>
<tr>
<td>Fire Science</td>
<td>77 ff</td>
<td>77 ff</td>
</tr>
<tr>
<td>Graphic Arts</td>
<td>78 ff</td>
<td>78 ff</td>
</tr>
<tr>
<td>Copy Preparation &amp; Composition</td>
<td>79 ff</td>
<td>79 ff</td>
</tr>
<tr>
<td>Letterpress Printing</td>
<td>80 ff</td>
<td>80 ff</td>
</tr>
<tr>
<td>Offset Preparation</td>
<td>81 ff</td>
<td>81 ff</td>
</tr>
<tr>
<td>Offset Presswork</td>
<td>82 ff</td>
<td>82 ff</td>
</tr>
<tr>
<td>Home Economics</td>
<td>83 ff</td>
<td>83 ff</td>
</tr>
<tr>
<td>General</td>
<td>84 ff</td>
<td>84 ff</td>
</tr>
<tr>
<td>Clothing</td>
<td>85 ff</td>
<td>85 ff</td>
</tr>
<tr>
<td>Dietetic Assistant Specialization</td>
<td>86 ff</td>
<td>86 ff</td>
</tr>
<tr>
<td>School Food Services Specialization</td>
<td>87 ff</td>
<td>87 ff</td>
</tr>
<tr>
<td>Food Services</td>
<td>88 ff</td>
<td>88 ff</td>
</tr>
<tr>
<td>Journalism</td>
<td>89 ff</td>
<td>89 ff</td>
</tr>
<tr>
<td>Library Clerk</td>
<td>90 ff</td>
<td>90 ff</td>
</tr>
<tr>
<td>Library Technical Assistant</td>
<td>91 ff</td>
<td>91 ff</td>
</tr>
<tr>
<td>Manufacturing Technology</td>
<td>92 ff</td>
<td>92 ff</td>
</tr>
<tr>
<td>Marketing</td>
<td>93 ff</td>
<td>93 ff</td>
</tr>
<tr>
<td>Medical Assisting</td>
<td>94 ff</td>
<td>94 ff</td>
</tr>
<tr>
<td>Merchandising</td>
<td>95 ff</td>
<td>95 ff</td>
</tr>
<tr>
<td>Middle Management</td>
<td>96 ff</td>
<td>96 ff</td>
</tr>
<tr>
<td>Nursing</td>
<td>97 ff</td>
<td>97 ff</td>
</tr>
<tr>
<td>Registered</td>
<td>98 ff</td>
<td>98 ff</td>
</tr>
<tr>
<td>Vocational</td>
<td>99 ff</td>
<td>99 ff</td>
</tr>
<tr>
<td>Paramedics</td>
<td>100 ff</td>
<td>100 ff</td>
</tr>
<tr>
<td>Photography</td>
<td>101 ff</td>
<td>101 ff</td>
</tr>
<tr>
<td>Real Estate</td>
<td>102 ff</td>
<td>102 ff</td>
</tr>
<tr>
<td>Resident Counselor</td>
<td>103 ff</td>
<td>103 ff</td>
</tr>
<tr>
<td>Secretarial</td>
<td>104 ff</td>
<td>104 ff</td>
</tr>
<tr>
<td>Secretarial Medical</td>
<td>105 ff</td>
<td>105 ff</td>
</tr>
<tr>
<td>Stenography</td>
<td>106 ff</td>
<td>106 ff</td>
</tr>
<tr>
<td>Structural Inspection</td>
<td>107 ff</td>
<td>107 ff</td>
</tr>
<tr>
<td>Supervisory Training</td>
<td>108 ff</td>
<td>108 ff</td>
</tr>
<tr>
<td>Surveying Technology</td>
<td>109 ff</td>
<td>109 ff</td>
</tr>
<tr>
<td>Welding</td>
<td>110 ff</td>
<td>110 ff</td>
</tr>
</tbody>
</table>

**NON-CREDIT COURSES FOR ADULTS**

<table>
<thead>
<tr>
<th>Title</th>
<th>For course patterns see page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning and Refrigeration</td>
<td>61 ff</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>62 ff</td>
</tr>
<tr>
<td>Current Hair Styling</td>
<td>63 ff</td>
</tr>
<tr>
<td>Teaching Training</td>
<td>64 ff</td>
</tr>
<tr>
<td>Insurance, C.L.U.</td>
<td>65 ff</td>
</tr>
<tr>
<td>Machine Shop</td>
<td>66 ff</td>
</tr>
<tr>
<td>For course patterns see page number</td>
<td></td>
</tr>
</tbody>
</table>

**OCCUPATIONAL PROGRAM**

Riverside City College offers two types of programs with occupational emphasis. Both provide instruction in the skills and knowledge needed to enter a skilled or semi-professional occupation. Associate in Arts degree programs require completion of 60 units of credit which normally take four semesters to complete. On the other hand, certificate programs vary in the number of units required, but most can be completed in two semesters. Each course required for the certificate must be completed with a C grade, and all can be counted toward the degree as well as the major.

Certificate programs are developed by the college in close cooperation with advisory committees made up of representatives from business and industry. These advisory committees not only review course outlines to make sure the instructional program will provide precisely the kind of training needed in the field, but they also make recommendations about technical equipment needed so that students will become familiar with equipment and tools they will use when they begin their employment.

**Need for Specialized Training**

Many find it difficult to secure employment or to advance to increased responsibility and better paying jobs without specialized training. General education has its values, to be sure, but in the early stages of one's career it is the specific, technical skills that an employer seeks. The certificate is the best evidence that this specialized training has been secured; some employers actually require it as a condition of employment or for re-classification for higher pay.

Frequently students will combine work toward a certificate or an AA degree with courses leading to transfer with advanced standing to a four-year college or university, thus acquiring a salable skill with which they can support themselves and their families while they continue to work for a baccalaureate degree.
Who Can Enroll in the Occupational Programs?

Any resident of the Riverside Community College District who is at least 18 years of age or a high school graduate can enroll at Riverside City College. (Anyone who lives in the Val Verde School District or the Alvord, Jurupa, Moreno Valley, or Riverside Unified School Districts also lives in the community college district.) Those who do not live in any community college district also may attend Riverside City College. Residents of other community college districts should consult with the Admissions Office about the procedure for securing a release from their home district to attend classes at Riverside City College.

Riverside City College extends an opportunity to eligible high school students who have completed the tenth grade to attend college on a limited basis while attending high school. Concurrent enrollment is similar to advanced placement programs that some other colleges offer. The student may choose to attend the fall, spring or summer session in either day or Extended Day classes.

Prior to the time of registration in college classes, the student must present a written recommendation from the high school principal, that he be permitted to register at the college.

A great many students begin occupational programs at Riverside City College immediately upon graduation from high school. Many, however, have dropped out of high school before receiving their diplomas. Others went to work upon graduation from high school and now return to the classroom upon discovering that they need further training. The occupational programs have a particular meaning for these students. Some have even gone so far as to say a student is actually better off for having worked a couple of years after finishing high school, that the added maturity will give his subsequent education much more significance.

Procedures for Entering an Occupational Program

The student wanting to qualify for a certificate should examine this section of the catalog in detail, noting the certificate requirements. Course descriptions in the colored pages of this catalog will give a clearer idea of the kinds of activities involved in preparing for the occupation. In some instances, he will find that courses which will help satisfy certificate requirements can be completed while he is still in high school. If he needs more information, he should contact a college counselor.

How to Get Further Information

Many occupational programs are described in special publications of the college. These can often be obtained from high school counseling offices, or prospective students may write or telephone the college's Office of Community Services or the Associate Dean of Academic Services, Occupational Education. The college phone number is 684-3240.

ACCOUNTING—CLERK
Associate in Arts Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>1</td>
</tr>
<tr>
<td>English 50-A or 50-B</td>
<td>3</td>
</tr>
<tr>
<td>Touring 1 or 51</td>
<td>3</td>
</tr>
<tr>
<td>Business Ed. 59-AB</td>
<td>3</td>
</tr>
<tr>
<td>Acc't. 69-AB</td>
<td>3</td>
</tr>
<tr>
<td>Business Ed. 79-AB</td>
<td>3</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Sec. Sci. 50-AB, 51-AB, 52-AB</td>
<td>2</td>
</tr>
<tr>
<td>Business Ed. 60</td>
<td>3</td>
</tr>
<tr>
<td>15-16</td>
<td>16-17</td>
</tr>
</tbody>
</table>

ADMINISTRATION OF JUSTICE
Associate in Arts Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>1</td>
</tr>
<tr>
<td>English 50-A or 50-B</td>
<td>3</td>
</tr>
<tr>
<td>Touring 1 or 51</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>1</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Adm. of Justice 1, 2</td>
<td>6</td>
</tr>
<tr>
<td>Adm. of Justice 3, 4</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education 30</td>
<td>1</td>
</tr>
<tr>
<td>15-16</td>
<td>15</td>
</tr>
</tbody>
</table>

AGRI-BUSINESS
Associate in Arts Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agri-Business 10</td>
<td>2</td>
</tr>
<tr>
<td>Agri-Business 12</td>
<td>4</td>
</tr>
<tr>
<td>Agri-Business 13</td>
<td>3</td>
</tr>
<tr>
<td>Agri-Business 20</td>
<td>3</td>
</tr>
<tr>
<td>Agri-Business 33, 29</td>
<td>3</td>
</tr>
<tr>
<td>English 50-A or 50-B</td>
<td>3</td>
</tr>
<tr>
<td>Touring 1 or 51</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 50 (elective)</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Humanities</td>
<td>17</td>
</tr>
<tr>
<td>17-16</td>
<td>17-17</td>
</tr>
</tbody>
</table>

NOTE — Degree Programs are Suggested Patterns Only
Occupational Programs

AIR CONDITIONING AND REFRIGERATION

Associate in Arts Degree

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Air Cond. &amp; Refrig. 50-AB</td>
<td>5</td>
</tr>
<tr>
<td>Air Cond. &amp; Refrig. 70-AB</td>
<td>4-8</td>
</tr>
<tr>
<td>Welding 15-A</td>
<td>2</td>
</tr>
<tr>
<td>English 1-A or 50-A</td>
<td>3</td>
</tr>
<tr>
<td>Health Science 1 or P.E. 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Electronics 10</td>
<td>4</td>
</tr>
<tr>
<td>English 1-B or 50-B or Speech 1 or 51</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Air Cond. &amp; Refrig. 51-AB</td>
<td>5</td>
</tr>
<tr>
<td>Air Cond. &amp; Refrig. 70-ABCD</td>
<td>4</td>
</tr>
<tr>
<td>Welding 25-A</td>
<td>2</td>
</tr>
<tr>
<td>Humanities</td>
<td>2</td>
</tr>
<tr>
<td>Science (Chem. 26) recommended</td>
<td>2</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 51</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: 14-18 to 17-18

APPRENTICE ELECTRICIAN

Associate in Arts Degree

Apprentice Electrician 30-AB — Wireman I
Apprentice Electrician 51-AB — Wireman II
Apprentice Electrician 52-AB — Wireman III
Apprentice Electrician 53-AB — Wireman IV

The above 31 units will be counted as the major.

Completion of the following general education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Science 1 or P.E. 44</td>
<td>2-3</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science or Global Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>0-2</td>
</tr>
<tr>
<td>English 1-A or 50-A</td>
<td>3</td>
</tr>
<tr>
<td>English 1-B or 50-B or Speech 1 or 51</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus electives to total 60 units. Completion of the Apprentice Electrician program satisfies the Science requirement.

ART—COMMERCIAL

Associate in Arts Degree

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>1</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>Art 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>Art 4-A, 4-B</td>
<td>3</td>
</tr>
<tr>
<td>Art 22</td>
<td>3</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Science requirement</td>
<td>2-3</td>
</tr>
<tr>
<td>Graphic Arts 30</td>
<td>2</td>
</tr>
<tr>
<td>Art 30</td>
<td>3</td>
</tr>
</tbody>
</table>

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Humanities</td>
<td>2</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>Auto. Tech. 50</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 51</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 52</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 53</td>
<td>2</td>
</tr>
<tr>
<td>Auto. Tech. 54</td>
<td>2</td>
</tr>
<tr>
<td>Auto. Tech. 70-A</td>
<td>2</td>
</tr>
<tr>
<td>Science requirement</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Humanities</td>
<td>2</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Auto. Tech. 55</td>
<td>8</td>
</tr>
<tr>
<td>Auto. Tech. 56</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 57</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 58</td>
<td>8</td>
</tr>
<tr>
<td>Auto. Tech. 60-ABCD — Work Experience (elective)</td>
<td>2-2</td>
</tr>
<tr>
<td>Graphic Arts 30</td>
<td>2</td>
</tr>
<tr>
<td>Art 30</td>
<td>3</td>
</tr>
</tbody>
</table>

Science requirement        16-16

Note — Degree Programs are Suggested Patterns Only

AUTOMOTIVE TECHNOLOGY

Certificate Program

The Automotive Technology certificate is designed to prepare students for entry level employment as an automotive mechanic helper or assistant automotive-service mechanic. Successful completion of the certificate will qualify students for such assignments as new car get-ready mechanic or minor tuneup work in a service station. Further work experience and training will be required for additional responsibility and advancement in the field.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Tech. 50</td>
<td>4</td>
</tr>
<tr>
<td>Auto Tech. 51</td>
<td>4</td>
</tr>
<tr>
<td>Auto Tech. 52</td>
<td>4</td>
</tr>
<tr>
<td>Auto Tech. 53</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 54</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 55</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 56</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 57</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 58</td>
<td>2</td>
</tr>
<tr>
<td>Auto Tech. 60-ABCD — Work Experience (elective)</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Associate in Arts Degree

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>Humanities</td>
<td>2</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>Auto. Tech. 50</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 51</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 52</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 53</td>
<td>2</td>
</tr>
<tr>
<td>Auto. Tech. 54</td>
<td>2</td>
</tr>
<tr>
<td>Auto. Tech. 70-A</td>
<td>2</td>
</tr>
<tr>
<td>Science requirement</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1</td>
<td>1</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Auto. Tech. 55</td>
<td>8</td>
</tr>
<tr>
<td>Auto. Tech. 56</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 57</td>
<td>4</td>
</tr>
<tr>
<td>Auto. Tech. 58</td>
<td>8</td>
</tr>
<tr>
<td>Auto. Tech. 70-ABCD — Work Experience (elective)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Science requirement        16-17

Note — Degree Programs are Suggested Patterns Only

Note: 15-16 to 18-19
### Occupational Programs

#### BANKING AND FINANCE

**Associate in Arts Degree**  
(American Institute of Banking Certificate Program)

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Education</strong></td>
<td><strong>Physical Education</strong></td>
</tr>
<tr>
<td><strong>American Studies</strong></td>
<td><strong>American Studies</strong></td>
</tr>
<tr>
<td><strong>English 50-A or 1-A</strong></td>
<td><strong>Business Administration 18-A</strong></td>
</tr>
<tr>
<td><strong>English 50-B or 1-B or Speech 51 or 1</strong></td>
<td><strong>Banking and Finance 33</strong></td>
</tr>
<tr>
<td><strong>Business Education 50-A</strong></td>
<td><strong>Humanities</strong></td>
</tr>
<tr>
<td><strong>Banking and Finance 51, 52</strong></td>
<td><strong>Economics 7 or 4</strong></td>
</tr>
<tr>
<td><strong>Health Science 1 or Physical Education 44</strong></td>
<td><strong>Natural Science 2-3</strong></td>
</tr>
<tr>
<td><strong>Acc'l 1-AB or 60-AB</strong></td>
<td><strong>Supervisory Training 51 or 52</strong></td>
</tr>
<tr>
<td><strong>Data Processing 10 or 1</strong></td>
<td><strong>Supervisory Training 55</strong></td>
</tr>
<tr>
<td><strong>Bez. Science</strong></td>
<td><strong>Behavioral Science</strong></td>
</tr>
</tbody>
</table>

- **Total Units:** 16-15, 15-14, 14-15

### BUSINESS—CLERICAL

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Education</strong></td>
<td><strong>Physical Education</strong></td>
</tr>
<tr>
<td><strong>Psychology 49 (elective)</strong></td>
<td><strong>Bus. Ed. 54 or 64</strong></td>
</tr>
<tr>
<td><strong>English 50-A or 1-A</strong></td>
<td><strong>American Studies</strong></td>
</tr>
<tr>
<td><strong>English 50-B or 1-B or Speech 51 or 1</strong></td>
<td><strong>Behavioral Sciences</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 63-AB</strong></td>
<td><strong>Science requirement 2-3</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 50-AB or 51-AB</strong></td>
<td><strong>Bus. Ed. 75</strong></td>
</tr>
<tr>
<td><strong>Bus. Ed. 60</strong></td>
<td><strong>Sec. Sci. 60, 61</strong></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td><strong>Sec. Sci. 62</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 51-AB or 52-AB</strong></td>
<td><strong>Bus. Ed. 79-AB</strong></td>
</tr>
<tr>
<td><strong>Health Science 1 or Physical Education 44</strong></td>
<td><strong>Humanities 2-3</strong></td>
</tr>
</tbody>
</table>

- **Total Units:** 15, 17, 16-18

### BUSINESS—GENERAL

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Education</strong></td>
<td><strong>Physical Education</strong></td>
</tr>
<tr>
<td><strong>Psychology 49 (elective)</strong></td>
<td><strong>American Studies</strong></td>
</tr>
<tr>
<td><strong>English 50-A or 1-A</strong></td>
<td><strong>Behavioral Sciences</strong></td>
</tr>
<tr>
<td><strong>English 50-B or 1-B or Speech 51 or 1</strong></td>
<td><strong>Bus. Ed. 75</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 63-AB</strong></td>
<td><strong>Science requirement 2-3</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 50-AB, 51-AB, 60, 61-AB</strong></td>
<td><strong>Data P. 1</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 51-AB, 52-AB</strong></td>
<td><strong>Data P. 2</strong></td>
</tr>
<tr>
<td><strong>Bus. Ed. 60</strong></td>
<td><strong>Marketing 41, 42</strong></td>
</tr>
<tr>
<td><strong>Sec. Sci. 60</strong></td>
<td><strong>Marketing 40</strong></td>
</tr>
<tr>
<td><strong>Bus. Ed. 54 or 64</strong></td>
<td><strong>Health Science 1 or Physical Education 44</strong></td>
</tr>
<tr>
<td><strong>Bus. Ed. 60</strong></td>
<td><strong>Humanities 2-3</strong></td>
</tr>
</tbody>
</table>

- **Total Units:** 16-18

---

**NOTE** — Degree Programs are Suggested Patterns Only

### CLERK-TYPIST

**Certificate Program**

The clerk-typist is an entry level position for students who do not feel they can devote more than one college year to prepare for a career in business. The program prepares students for competence in typing, filing, business machines, record keeping, and other office skills. The program is geared to the recent high school graduate as well as to non-graduates.

1. **Sec. Sci. 50-AB**  
   **Introduction to Typewriting**
2. **Bus. Ed. 50-A**  
   **Business Mathematics, I**
3. **Accounting 60-AB**  
   **Elementary Accounting, I**
4. **Sec. Sci. 62**  
   **Filing**
5. **English 50-A**  
   **English Composition**
6. **Sec. Sci. 51-AB**  
   **Intermediate Typewriting**
7. **Sec. Sci. 52-AB**  
   **Advanced Typewriting**
8. **Accounting 60-B**  
   **Elementary Accounting, II**
9. **Sec. Sci. 63-B**  
   **Secretarial Accounting, II**
10. **Bus. Ed. 60**  
    **Business Machine Calculators**
11. **Sec. Sci. 61**  
    **Office Practice**
12. **Bus. Ed. 54 or 64**  
    **Personal Development for Employment**

**NOTE** — Degree Programs are Suggested Patterns Only

---

**If** student has completed one year of high school bookkeeping, he should replace Accounting 60-A or Sec. Sci. 63-A with Data Processing 1 or Speech 51.

**If** the student has the skills developed by these courses, the course requirement may be waived. Sec. Sci. 54 or 64 is suggested as an alternate. In any case, the certificate will still require thirty college units.
COMMUNITY SERVICES CERTIFICATES:

Community Services Aide Certificate Program

The community services aide curriculum provides training for entry level employ-
ment in such agencies as welfare departments, correctional institutions, Social Security
Agency, hospitals, employment departments, private social service agencies and many
other city, county, state and federal service-oriented facilities.

BASIC REQUIREMENTS FOR ALL CERTIFICATES
EXCEPT INSTRUCTIONAL AIDE

Health Science 2
Economics 30 2
Psychology 33 or Psychology 53 2-2
Sociology 1 or Introduction to Sociology 3
Sociology 12 Marriage and Family Relations 3
Sociology 2 American Social Problems 3
Sociology 50-A Community Services Laboratory 2
Sociology 50-B Community Services Laboratory 2
Electives for specialized employment areas (listed below) 12-13

ELECTIVES FOR COMMUNITY SERVICES AIDE

Bus. Ed. 54 or 64 Personal Development for Employment 2
Economics 4 Contemporary Economic Problems 3
Home Economics 7 Child Development 3
Sociology 1 Introduction to Sociology 3
Sociology 10 Survey of Ethnic Group Interaction 3
Sociology 12 Marriage and Family Relations 3
Sociology 50-C Community Services Laboratory 2
Sociology 50-D Community Services Laboratory 2

ELECTIVES FOR SOCIAL SERVICE AIDE

Sec. Science 50-AB Beginning Typewriting 2
Home Ec. 50 Modern Home Management 2
Admin. of Justice 1 Introduction to Administration of Justice 3
Admin. of Justice 8 Juvenile Law and Procedures 3
Sociology 10 Survey of ethnic Group Interaction 3
Sociology 50-C Community Services Laboratory 2
Sociology 50-D Community Services Laboratory 2
Bus. Ed. 54 or 64 Personal Development for Employment 2
Occupational Programs

COSMETOLOGY

Certificate Program

Professional cosmetology is an occupational field open to both men and women. Cosmetology is concerned with the professional care of the hair, skin, and nails. Cosmetologists utilize the discoveries of the sciences of biology, chemistry, and physics, and the arts of line, color and texture. The course requires 1600 hours of attendance and normally can be completed in two semesters plus a six-week summer session. It includes a study of chemical waving, hairdressing and bleaching, haircutting, hairstyling, manicuring, care of the scalp, facials, personal grooming, sanitation, salesmanship, and salon management. Trained cosmetologists are in demand for part-time and full-time employment as hairstylists, haircoloring technicians, platform and makeup artists, manicurists, cosmetic consultants, and instructors of cosmetology.

Full-time program: (Classes 8:45 a.m. to 3:30 p.m., Monday through Friday)

- Cosmetology 51 Introduction to Cosmetology 16 units
- Cosmetology 52 Intermediate Cosmetology 16 units
- Cosmetology 53 Advanced Cosmetology 16 units

Part-time program: (Classes 9 a.m. to 1 p.m., or 1-5 p.m., or 6:30-10:30 p.m., Monday through Friday)

- Cosmetology 61-A Introduction to Cosmetology 8 units
- Cosmetology 61-B Introduction to Cosmetology 8 units
- Cosmetology 62-A Intermediate Cosmetology 8 units
- Cosmetology 62-B Intermediate Cosmetology 8 units
- Cosmetology 63-A Advanced Cosmetology 8 units
- Cosmetology 63-B Advanced Cosmetology 8 units

Completion of Cosmetology curriculum entitles the student to the Cosmetology Certificate and eligibility for the State Board of Cosmetology Licensing Examination.

Associate in Arts Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosmetology 51** 16 440 hours</td>
<td>Physical Education 1 1</td>
</tr>
<tr>
<td>Cosmetology 52** 16 512 hours</td>
<td>English 50-A or 1-A 3</td>
</tr>
<tr>
<td>Cosmetology 53** 16 648 hours</td>
<td>English 50-B or 1-B or Speech 51 or 1 3</td>
</tr>
<tr>
<td>*May substitute 61-AB</td>
<td>Humanities 2</td>
</tr>
<tr>
<td>**May substitute 62-AB</td>
<td>American Studies 3</td>
</tr>
<tr>
<td>***May substitute 63-AB</td>
<td>Behavioral Science 3</td>
</tr>
<tr>
<td>48 1600 hours</td>
<td>Health Science 1 or Physical Education 44 2-3</td>
</tr>
<tr>
<td>11-12 9</td>
<td></td>
</tr>
</tbody>
</table>

Completion of the program (1600 hours) satisfies science requirement.

NOTE — Degree Programs are Suggested Patterns Only

Occupational Programs

DATA PROCESSING

Certificate Program

Provides the education necessary for employment as skilled technicians in business data processing. With the increased use of data processing there will be an ever increasing demand for technicians in the field. This program also provides an opportunity for those already in the field to update themselves in the use of business data processing equipment and systems.

| Accounting 60-A | Elementary Accounting 1 3 |
| Bus. Ed. 50-A | Business Mathematics 1 3 |
| Data Processing 1 | Introduction to Data Processing 3 |
| Data Processing 2 | Basic Computer Data Processing 3 |
| Data Processing 11 | Computer Programming Assembly Lang. |
| or | Data Processing 14 Computer Programming PL/I 3 |
| Data Processing 12-A | Computer Programming FORTRAN 3 |
| Data Processing 13-A | Computer Programming COBOL 3 |
| Data Processing 15 or 30 | Computer Programming RPG or Problems in Computer Data Processing 3 |
| Data Processing 20 | Data Processing Systems 3 |

ASSOCIATE IN ARTS DEGREE

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 1 1</td>
<td>Physical Education 1 1</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>English 50-B or 1-B or Speech 51 or 1 3</td>
</tr>
<tr>
<td>Business Education 50-A</td>
<td>Health Science 1 or Physical Education 44 2-3</td>
</tr>
<tr>
<td>Humanities 2</td>
<td>Behavioral Sciences 3</td>
</tr>
<tr>
<td>Data Processing 1, 2 3</td>
<td>Data Proc. 13-B or 14 3</td>
</tr>
<tr>
<td>Elective 3</td>
<td>Data Proc. 12-A, 12-B &amp; 20 3</td>
</tr>
<tr>
<td>15 17-18</td>
<td></td>
</tr>
</tbody>
</table>


NOTE — Degree Programs are Suggested Patterns Only
DENTAL TECHNOLOGY

Certificate Program

The dental laboratory technician makes full and partial dentures, gold inlays, crowns, and bridges. He is an important member of the dental health team, and his skills and knowledge are invaluable to modern dental practice. The technician's relation to the dentist is comparable to that of the pharmacist to the physician. Technicians are employed in dental offices or laboratories, and there also are opportunities for employment in government agencies or in companies selling dental materials, equipment and supplies.

Dental Tech. 70  Intro. to Dental Technology, Ethics
and Jurisprudence  1  □
Dental Tech. 71  Dental Morphology  2  □
Dental Tech. 72-A  Dental Materials and Their Uses, I  3  □
Dental Tech. 72-B  Dental Materials and Their Uses, II  2  □
Dental Tech. 73-A  Complete Denture Techniques, I  4  □
Dental Tech. 73-B  Complete Denture Techniques, II  4  □
Dental Tech. 73-C  Complete Denture Techniques, III  2  □
Dental Tech. 74  Dental Anatomy and Physiology  2  □
Dental Tech. 75  Crown Waxing Techniques  2  □
Dental Tech. 76-A  Crown and Bridge Techniques, I  3  □
Dental Tech. 76-B  Crown and Bridge Techniques, II  4  □
Dental Tech. 76-C  Crown and Bridge Techniques, III  3  □
Dental Tech. 77-A  Partial Denture Techniques, I  4  □
Dental Tech. 77-B  Partial Denture Techniques, II  4  □
Dental Tech. 78  Elementary Ceramics  3  □
Dental Tech. 82  Business Management of the Dental Lab.  1  □

Expenses will be about $150 for the two year course. Kit of special laboratory instruments will be required.

Associate in Arts Degree

DRAFTING (Architectural)

Associate in Arts Degree

Physical Education  1  1
Psychology 49 (elective)  1  1
English 50-A or I-A  3  □
English 50-B or I-B or Speech 51 or 1  3  □
American Studies  3  □
Behavioral Sciences  3  □
Mathematics 35, 36  3  □
Art 5  3  □
Architecture 50-A, 50-B  3  □
Engineering 22  4  □
Art 4-A, 4-B  3  3

DRAFTING (Mechanical)

Associate in Arts Degree

Physical Education  1  1
Psychology 49 (elective)  1  1
English 50-A or I-A  3  □
English 50-B or I-B or Speech 51 or 1  3  □
American Studies  3  □
Behavioral Sciences  3  □
Mathematics 35, 36  3  □
Engineering 50, 22  2  2
Health Science 1 or Physical Education 44  2-3

Completion of program meets graduation requirements in science.

NOTE — Degree Programs are Suggested Patterns Only
Occupational Programs

EARLY CHILDHOOD STUDIES

Certificate Program

The curriculum in Early Childhood Studies offers students training in the necessary understanding, knowledge, practice and skills to qualify them for the occupation of teacher aide, teacher assistant, teacher associate, teacher or director in public, government-funded or private preschool, nursery schools and day care centers. It is also designed to give students the appropriate background if they desire to operate their own preschool business or family day care program. People interested in working with young children in related fields also receive valuable training through this program. It leads to a certificate in Early Childhood Studies and/or an Associate in Arts degree.

Group I - Required Courses

1. ECS 1 Introduction to Early Childhood Programs
2. ECS 2 Principles and Practices of Early Childhood Education
3. ECS 2-4 ABCD Work Experience
4. ECS 6 Creative Activities for Young Children
5. ECS 7 Child Development
6. P.E. 30 First Aid

Group II - Complete three courses from the five areas below:

1. Art 3 Art for Teachers
2. English 30 Children's Literature
3. Music 1 Music Skills for Teachers
4. P.E. 37 Introduction to Movement Education for Elementary Children
5. P.E. 38 Rhythmic Activities for the Elementary School
6. ECS 17 Adult-Child Interaction

Group III - Complete two courses from the six areas below

1. Psychology 1 General Psychology
2. Psychology 33 Personal and Social Behavior
3. Sociology 1 Introduction to Sociology
4. Sociology 12 Marriage and Family Relations
5. Sociology 45 Childhood and Culture
6. Education 1 Introduction to Education

Group IV - Complete one additional course from either Groups IV below or from Group II or III above:

1. ECS 44 Supervision and Administration in ECS
2. Home Economics 4 Nutrition
3. Speech 1 Public Speaking
4. Speech 51 Basic Speech

(Early Childhood Studies continued on Page 73)

ELECTRONICS

Certificate Program

The electronic communications field continues to expand and continuously is in need of skilled workers for installation, repair and maintenance of equipment. This certificate program is designed to develop the ability to diagnose, adjust, align, maintain, and perform operational check-out of electronic equipment such as radio, color and black and white television, and tape recorders. Math instruction is confined to that necessary for the basic electrical and electronic theory. Pride in workmanship, patience, and the ability to think logically are attributes of a successful technician.

Group I - Required Courses

1. Electronics 71 Fundamentals of Electronics for Technicians
2. Electronics 72 Math for Technicians
3. Electronics 73 Basic Television
4. Electronics 74 Electronic Test Equipment
5. Electronics 75 Servicing Semiconductor Equipment
6. Electronics 76 Television Circuitry
ESCROW

Certificate Program

The escrow officer is an essential participant in all real estate transactions. He receives documents and deposits of money until all terms of the sale have been met. His is a position of great financial and ethical responsibility. Employment opportunities for the trained and qualified escrow person exist in title and escrow companies, savings and loan, banking and other financial institutions, mortgage concerns, management, land and realty firms.

The Escrow Certificate will be awarded to persons who satisfactorily complete the following program of courses totaling 24 or more units, with a grade of C or better in each course:

Group I

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrow 90-A</td>
<td></td>
</tr>
<tr>
<td>Escrow 90-B</td>
<td></td>
</tr>
<tr>
<td>Escrow 90-C</td>
<td></td>
</tr>
<tr>
<td>Real Estate 89</td>
<td></td>
</tr>
<tr>
<td>Real Estate 82</td>
<td></td>
</tr>
<tr>
<td>Real Estate 83</td>
<td></td>
</tr>
</tbody>
</table>

Escrow 90-A could be omitted by those who satisfy the prerequisite for Escrow 90-B through one year experience as an escrow officer. Twenty-four or more units would still be required for the certificate.

Related Elective Courses — Six or more units from at least two of the following subject areas:

- Sec. Sci. 51-AB
- Sec. Sci. 60
- Bus. Educ. 50-A
- Real Estate 81
- Real Estate 84-A
- Real Estate 85
- Business Ad. 18-A

(Escrow continued on Page 75)
OCCUPATIONAL PROGRAMS

GRAPHIC ARTS — COPY PREPARATION AND COMPOSITION
Certificate Program

The person responsible for copy preparation and composition is a craftsman in his own right. He makes use of a knowledge of type design, color harmony and type grouping to produce an over-all effect which gives maximum beauty within the bounds of sound economy of operation. This certificate is designed to prepare a student for entry level employment skills in preparation and composition.

<table>
<thead>
<tr>
<th>Program</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Arts 60-A</td>
<td>Graphic Design, Paste-up and Photocomposition</td>
<td>5</td>
</tr>
<tr>
<td>Graphic Arts 60-B</td>
<td>Graphic Design, Paste-up and Photocomposition</td>
<td>5</td>
</tr>
<tr>
<td>Graphic Arts 60-C</td>
<td>Graphic Design, Paste-up and Photocomposition</td>
<td>5</td>
</tr>
<tr>
<td>Graphic Arts 80</td>
<td>Beginning Offset Preparation</td>
<td>8</td>
</tr>
</tbody>
</table>

GRAPHIC ARTS — LETTERPRESS PRINTING
Certificate Program

The actual printing operation is performed in the pressroom. Printing pressmen "make ready" (prepare) type forms and press plates for final printing and tend the presses while they are in operation. The object of make ready is to insure printing impressions that are distinct and uniform. In some shops, pressmen are responsible not only for tending the presses but also for oiling, cleaning and making minor repairs. This certificate is designed to prepare a student with introductory employment skills required in a pressroom.

<table>
<thead>
<tr>
<th>Program</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Arts 65-A</td>
<td>Letterpress Composition/Presswork</td>
<td>4</td>
</tr>
<tr>
<td>Graphic Arts 65-B</td>
<td>Adv. Letterpress Composition/Presswork</td>
<td>4</td>
</tr>
<tr>
<td>Graphic Arts 85</td>
<td>Beginning Offset Presswork</td>
<td>8</td>
</tr>
</tbody>
</table>

GRAPHIC ARTS — OFFSET PREPARATION
Offset Preparation Certificate

Several operations are involved in offset lithography and each is performed by a specialized group of workers. The main groups of lithographic workers are cameramen, strippers, platemakers and pressmen. The stripper arranges and pastes film or prints of type, pictures, and other art work on the layout sheets called flats, from which photographic impressions are made for the lithographic press plates. The platemaker exposes press plates to photographic films which are made by the cameraman. The plate is then developed and chemically treated to bring out the image. This certificate is designed to develop entry level skills in these occupations.

<table>
<thead>
<tr>
<th>Program</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Arts 89</td>
<td>Beginning Offset Preparation</td>
<td>8</td>
</tr>
<tr>
<td>Graphic Arts 81-A</td>
<td>Offset Camera, Stripping &amp; Plate Processing</td>
<td>8</td>
</tr>
<tr>
<td>Graphic Arts 81-B</td>
<td>Adv. Offset Camera, Stripping &amp; Plate Processing</td>
<td>8</td>
</tr>
<tr>
<td>Graphic Arts 60-A</td>
<td>Graphic Design, Composition &amp; Copy Preparation</td>
<td>5</td>
</tr>
</tbody>
</table>
## Occupational Programs

### HOME ECONOMICS — GENERAL Associate in Arts Degree

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 8</td>
<td>3</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>English 30</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2-A, 2-B</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 20</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 5</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 7</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 30</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 4</td>
<td>3</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 10</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 56</td>
<td>2</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Art 22</td>
<td>3</td>
</tr>
<tr>
<td>Home Econ. 53 or 54</td>
<td>3</td>
</tr>
<tr>
<td>Health Economics 80</td>
<td>2</td>
</tr>
<tr>
<td>Home Econ. 21-A, 21-B</td>
<td>2</td>
</tr>
</tbody>
</table>

### HOME ECONOMICS — CLOTHING Associate in Arts Degree

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 5</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 8</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 10</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 20</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 5</td>
<td>3</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>Art 22</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 53 or 1</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 21-AB</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 54</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 80</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 30</td>
<td>2</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Home Econ. 25-A, 25-B</td>
<td>2</td>
</tr>
<tr>
<td>Science requirement</td>
<td>3-3</td>
</tr>
<tr>
<td>Electives</td>
<td>3-4</td>
</tr>
</tbody>
</table>

### HOME ECONOMICS — FOOD SERVICES Certificate Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 40</td>
<td></td>
</tr>
<tr>
<td>Home Economics 41</td>
<td></td>
</tr>
<tr>
<td>Home Economics 1</td>
<td></td>
</tr>
<tr>
<td>Home Economics 4</td>
<td></td>
</tr>
<tr>
<td>Home Economics 42</td>
<td></td>
</tr>
<tr>
<td>Home Economics 43</td>
<td></td>
</tr>
<tr>
<td>Home Economics 44</td>
<td></td>
</tr>
<tr>
<td>Home Economics 45</td>
<td></td>
</tr>
<tr>
<td>Home Economics 46</td>
<td></td>
</tr>
<tr>
<td>Home Economics 47</td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td></td>
</tr>
</tbody>
</table>

- Mathematics 51, or a qualifying test score is also required.

**Introduction to Food Service** | 3
- **Sanitation and Safety** | 2
- **Principles of Food Preparation** | 3
- **Nutrition** | 3
- **Quantity Food Production Equipment** | 1
- **Quantity Food Preparation** | 2
- **Food Production Management** | 2
- **Supervision and Training** | 1
- **Manu Planning** | 1
- **Food Purchasing and Cost Control** | 2
- **Psychology or Human Relations** | 3
- **Communication Skills (oral or written)** | 3

**NOTE — Degree Programs are Suggested Patterns Only**

---

### HOME ECONOMICS — DIETETIC ASSISTANT SPECIALIZATION

Above courses plus:

- Home Economics 48
- Home Economics 49-A

- **Modified Diets**
- **Supervised Field Experience — 150 hrs.**
- **to be taken concurrently with Home Economics 4 — Nutrition**

### HOME ECONOMICS — SCHOOL FOOD SERVICE SPECIALIZATION

Above courses plus:

- Home Economics 49-A

- **Supervised Field Experience — 150 hrs.**
- **to be taken concurrently with Home Economics 4 — Nutrition**

### HOME ECONOMICS — FOOD PRODUCTION MANAGEMENT Certificate Program

- ECE 7
- **Child Development**

This certificate will replace previously approved certificates:

### HOME ECONOMICS — DIETETIC SERVICE SUPERVISOR Certificate Program

### HOME ECONOMICS — FOODS Associate in Arts Degree

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 4</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 8</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 50</td>
<td>3</td>
</tr>
<tr>
<td>English 56-A or 1-A</td>
<td>3</td>
</tr>
<tr>
<td>English 56-B or 1-B or Speech 51 or 1</td>
<td>3</td>
</tr>
<tr>
<td>Art 22</td>
<td>3</td>
</tr>
<tr>
<td>Art 23 or 4-A</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>2-3</td>
</tr>
<tr>
<td>Psychology 53 or 1</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Home Economics 16</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 30</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 70</td>
<td>2</td>
</tr>
<tr>
<td>American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Home Econ. 72</td>
<td>2</td>
</tr>
<tr>
<td>Science requirement</td>
<td>3-3</td>
</tr>
<tr>
<td>Psychology 53 or 1</td>
<td>2-3</td>
</tr>
<tr>
<td>Electives</td>
<td>3-5</td>
</tr>
</tbody>
</table>

**NOTE — Degree Programs are Suggested Patterns Only**

---
### Occupational Programs

#### JOURNALISM

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>Literature</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>Journalism 50-AB, or 51-AB</td>
</tr>
<tr>
<td>American Studies</td>
<td>Science requirement</td>
</tr>
<tr>
<td>Sociology 1, 2</td>
<td>Humanities</td>
</tr>
<tr>
<td>Journalism 1, 2</td>
<td>Journalism 54-B, 54-C</td>
</tr>
<tr>
<td>Photography 8, 9</td>
<td>Marketing 40 (elective)</td>
</tr>
<tr>
<td>Journalism 54-A</td>
<td>Psychology or</td>
</tr>
<tr>
<td>Physical Education 44</td>
<td>Journalism 11-A, 11-B</td>
</tr>
<tr>
<td></td>
<td>Journalism 7</td>
</tr>
</tbody>
</table>

**Freshman Year**: 16-18

**Sophomore Year**: 17-18

**NOTE** — Degree Programs are Suggested Patterns Only

#### LIBRARY CLERK

**Certificate Program**

Prepares students for immediate employment or improves skills necessary for continued employment in clerical positions under the supervision of professional librarians.

| Library 1 | Use of Books & Libraries |
| Library 56 | Intro. to Lib. Op. and Services |
| Library 53 | Technical Processes |
| Library 56 | Children & Young Adult Lib. Serv. |
| Library 57 | Audio-Visual Mat., Meth. and Use |
| Library 59 | Library Internship |
| Sec. Sci. 50-AB | Beginning Typewriting |

**Freshman Year**: 0-2

**Sophomore Year**: 12-14

#### LIBRARY TECHNICAL ASSISTANT

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>Health Science 1 or</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>Physical Education 44</td>
</tr>
<tr>
<td>American Studies</td>
<td>Humanities</td>
</tr>
<tr>
<td>Behavioral Sciences</td>
<td>Science</td>
</tr>
<tr>
<td>Sec. Sci. 50-AB or 51-AB</td>
<td>Psychology 53 or 1</td>
</tr>
<tr>
<td>Electives</td>
<td>Sec. Sci. 60 or 61*</td>
</tr>
<tr>
<td>Library 1, 56</td>
<td>Humanities Electives</td>
</tr>
<tr>
<td>Library 59</td>
<td>Electives</td>
</tr>
<tr>
<td>Library 62</td>
<td>Library 59</td>
</tr>
<tr>
<td>Library 53</td>
<td>Library 53</td>
</tr>
</tbody>
</table>

**Freshman Year**: 15-17

**Sophomore Year**: 15-16

*Business Communications or Office Practices

**NOTE** — Degree Programs are Suggested Patterns Only

#### MANUFACTURING TECHNOLOGY

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Machine Shop 51, 52</td>
<td>Welding 15-AB</td>
</tr>
<tr>
<td>Welding 15-AB</td>
<td>Air Cond. &amp; Refriger. 50-AB</td>
</tr>
<tr>
<td>English 1-A or 50-A</td>
<td>English 1-B or 50-B or Speech 1 or 51</td>
</tr>
<tr>
<td>Health Science 1 or P.E. 64</td>
<td></td>
</tr>
</tbody>
</table>

**Freshman Year**: 15-17

**Sophomore Year**: 18-19

**NOTE** — Degree Programs are Suggested Patterns Only

#### MARKETING

**Associate in Arts Degree**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>American Studies</td>
</tr>
<tr>
<td>English 50-B or 1-B or Speech 51 or 1</td>
<td>Bus. Ed. 75 or</td>
</tr>
<tr>
<td>Bus. Ed. 50-A</td>
<td>Bus. Adm. 18-A</td>
</tr>
<tr>
<td>Sec. Sci. 51-AB, 60</td>
<td>Marketing 41,40</td>
</tr>
<tr>
<td>Humanities</td>
<td>Marketing 76-C, 70-D</td>
</tr>
<tr>
<td>Marketing 41,40</td>
<td>Bus. Ed. 70-A</td>
</tr>
<tr>
<td>Health Science 1 or Physical Education 44</td>
<td>Bus. Ed. 70-B or 18-B</td>
</tr>
<tr>
<td>Science requirement</td>
<td>Acct’g 60-AB or Lab.</td>
</tr>
<tr>
<td>Marketing 70-AB</td>
<td></td>
</tr>
</tbody>
</table>

**Freshman Year**: 17-18

**Sophomore Year**: 18-19

**NOTE** — Degree Programs are Suggested Patterns Only

#### MEDICAL ASSISTING (Administrative)

**Certificate Program**

| Medical Assisting 51 | Medical Terminology |
| Medical Assisting 52 | Medical Office Procedures, I |
| Medical Assisting 53 | Medical Office Procedures, II |
| Medical Assisting 56 | Medical Transcription |
| Medical Assisting 57 | Medical Law and Ethics |
| Anatomy & Physiology 2-A | Anatomy & Physiology, I |
| Psychology | General Psychology |
| Secretarial Science 50-AB | Secretarial Science 50-AB |
| Beginning Typewriting | or (test equivalent) |

**Freshman Year**: 0-2

**Sophomore Year**: 11-1

**NOTE** — Degree Programs are Suggested Patterns Only
Occupational Programs

MEDICAL ASSISTING (Clinical)
Certificate Program

Medical Assisting 51 Medical Terminology 3 ✓
Medical Assisting 52 Medical Office Procedures, I 2 ✓
Medical Assisting 53 Medical Office Procedures, II 2 ✓
Medical Assisting 54 Medical Office Procedures, III 2 ✓
Medical Assisting 57 Medical Law and Ethics 3 ✓
Medical Assisting 58 Pharmacology for Medical Assistants 3 ✓
Anatomy & Physiology 2-A Anatomy & Physiology, I 4 ✓
Microbiology 1 Microbiology 4 ✓
Psychology 1 General Psychology 3 ✓
Secretarial Science 50-AB Beginning Typewriting 3-1 ✓
(or test equivalent)
Secretarial Science 60 Business Communications 2 ✓

MEDICAL ASSISTING
Associate in Arts Degree

Completion of the following general education requirements:

English I-A or 50-A requirement 3 ✓
English I-B or 50-B or Speech 1 or 51 requirement 3 ✓
Social Sciences requirement 6 ✓
Physical Education, if required 4 ✓
Health Science 1 or P.E. 44 2-3 ✓
Humanities requirements 4 ✓

Plus electives totaling 60 units of college work as required for an A.A. Degree including certificate requirements.

MERCHANDISING
Certificate Program

I Marketing 29 Principles of Marketing 3 ✓
II Any four of the following: Advertising (2 units) 12 ✓
Marketing 41 Technique of Selling (2 units) ✓
Marketing 42 Retail Management (3 units) ✓
Business Admin. 10 Introduction to Business (3 units) ✓
Business ed. 70-A Small Business Organization ✓
Marketing 70-ABCD and Management, I (3 units) ✓
III Either one of the following: Distributive Education (2 or more units) ✓
Business Education 75 (work experience) ✓
Business Admin. 18-A

(Merchandising continued on Page 83)
Occupational Programs

MIDDLE MANAGEMENT

Associate in Arts Degree

Completion of the following general education requirements:

- English I-A or 50-A requirement
- English I-A or 50-B or Speech 1 or 51 requirement
- Social Sciences requirement
- Physical Education, if required
- Health Science 1 or P.E. 44
- Humanities requirements

Plus electives totaling 60 units of college work as required for an A.A. Degree including certificate requirements

NOTE — Degree programs are Suggested Patterns Only

NURSING — REGISTERED

Associate in Arts Degree

Students interested in the Registered Nursing Program should contact the RCC counseling division for information on eligibility requirements, priority admission considerations and the separate application requirements, once eligibility has been established.

Required Non-Nursing Courses

Units

*Anatomy & Physiology 2-A 4
*Anatomy & Physiology 2-B 4
*Microbiology 1 4
English 1-A 3
Speech 1 3
Anthro 2 or Sociology 1 3
**Psychology 1 or 23 3
American Studies 3
Humanities 4
***Physical Education 0-4

Total Units 31-35

Required Nursing Courses

Units

First Semester:
- Nursing 1-A, 1-B, 9
- Second Semester:
- Nursing 2, 10
- Optional Summer Session:
- Nursing 20 or 21
- Third Semester:
- Nursing 3, 11
- Fourth Semester:
- Nursing 4, 12
- Optional Summer Session:
- Nursing 22

Total Units 35-60

*At least a grade of "C" is required.
**Prerequisite for Psych 33 is waived.
***P.E. required for students under 21

NOTE: Completion of the RN program meets the requirements in Health Science.

NURSING — VOCATIONAL

Certificate Program

Freshman Year

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>0-4</td>
</tr>
<tr>
<td>Total Units 31-35</td>
</tr>
</tbody>
</table>

Physical Education 1
Nursing 51 2
Nursing 52 2
Nursing 53 2
Nursing 54 2
Nursing 56 3
Nursing 57 6
Nursing 60 2
Nursing 61 5
Nursing 62 5
Nursing 63 5

Summer Session 18

Sophomore Year

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>0-4</td>
</tr>
<tr>
<td>Total Units 35</td>
</tr>
</tbody>
</table>

Physical Education 1
English 50-A or 1-A 3
English 50-B or 1-B or Speech 51 or 1
American Studies 3
Behavioral Sciences 3
Humanities 2

Note: All of these courses are required.

At least a C average is required in all nursing courses.

PARAMEDECS

Certificate Program

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>Total Units 33</td>
</tr>
</tbody>
</table>

Medical Technician 65
Emergency Medical Technician I
Medical Assistant 51
Medical Terminology
Anatomy & Physiology 2-A
Anatomy & Physiology 1

Semester II

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Medical Technician 70
Introduction to Paramedics Training

Semester III

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Medical Technician 71
Intermediate Paramedics Training

Semester IV

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>33</td>
</tr>
</tbody>
</table>

Medical Technician 72
Advanced Paramedics Training
Medical Technician 99
Work Experience

PARAMEDECS

Associate in Arts Degree

The above 33 units in the Certificate Program will be counted as the major. Completion of the following general education requirements:

- English 1-A or 50-A requirement
- English 1-B or 50-B or Speech 1 or 51 requirement
- Social Sciences requirement
- Physical Education, if required
- Humanities requirement
- Mathematics requirement

Plus electives totaling 60 units of college work as required for A.A. Degree

Successful completion of the program meets the requirement for Health Science or Physical Education 44.

NOTE — Degree Programs are Suggested Patterns Only
Occupational Programs

Real Estate

Certificate Program

The population in California continues to expand, and there is no indication that there will be any significant reduction in this rate of growth in the foreseeable future. All of these people need homes, and the businesses which serve them need sites on which to operate. The assistance of a trained real estate man is essential in meeting these needs.

The real estate certificate is awarded students who satisfactorily complete the courses listed in Group I, and nine units from the list of recommended electives in Group II. Any three of the courses in Group I are acceptable by the University of California toward its Associate in Arts Degree.

Group I

- Real Estate
- Real Estate Principles
- Real Estate Practice
- Real Estate Finance
- Real Estate Aspects of Real Estate
- Real Estate Appraisal
- Real Estate Economics

Group II

- Nine units from electives listed below:
- Business Education
- Accounting
- Business Communications
- Marketing
- Real Estate
- Escrow

Certificate Program

- Photography
- Intermediate Photography
- Advanced Photography
- Composition in Drawing and Painting
- Basic Design
- Graphics

Electives—Depending upon career interest and experiences

(Real Estate continued on Page 87)

NOTE - Degree Programs are Suggested Patterns Only
SECRETARIAL TRAINING — MEDICAL

Associate in Arts Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>American Studies</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>Behavioral Sciences</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or 2</td>
<td>Humanities</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Speech 51 or 1</td>
<td>Sec. Sci. 72, 73</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Acct'g 50-AB or 70, 71 or 63-AB</td>
<td>Sec. Sci. 66, 61</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Sec. Sci. 51-AB, 52-AB</td>
<td>Sec. Sci. 90-A, 90-B</td>
</tr>
<tr>
<td>2</td>
<td>1-4</td>
</tr>
<tr>
<td>Bus. Ed. 60</td>
<td>Health Science 1 or</td>
</tr>
<tr>
<td>3</td>
<td>1-4</td>
</tr>
<tr>
<td>Bus. Ed. 50-A</td>
<td>Physical Education 44</td>
</tr>
<tr>
<td>3</td>
<td>2-3</td>
</tr>
<tr>
<td>Sec. Sci. 62</td>
<td>Science requirement</td>
</tr>
<tr>
<td>3</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>Bus. Ed. 54 or 64</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>16-18</td>
</tr>
<tr>
<td></td>
<td>15-19 17-21</td>
</tr>
</tbody>
</table>

STENOGRAPHER

Certificate Program

The stenographer possesses skills in manual or machine shorthand as well as in typing and filing and the use of duplicating, and other business machines. The stenographer is a better paid, more versatile employee than the clerk-typist because she has more skills. Employment is available in one-woman offices as well as in larger establishments. The college offers a one-year certificate program which provides entry level stenographic skills for office employees.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 49 (elective)</td>
<td>American Studies</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>English 50-A or 1-A</td>
<td>Behavioral Sciences</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English 50-B or 1-B or 2</td>
<td>Humanities</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Speech 51 or 1</td>
<td>Sec. Sci. 90-B</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Sec. Sci. 51-AB, 52-AB</td>
<td>Sec. Sci. 73</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Sec. Sci. 70 or 63-AB</td>
<td>Sec. Sci. 60, 61</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2-A</td>
<td>Sec. Sci. 62</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Sec. Sci. 70 or 63-AB</td>
<td>Anat. &amp; Physiol. 2-AB</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Humanities</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Physical Ed. 50</td>
<td>Bus. Ed. 54 or 64</td>
</tr>
<tr>
<td>2</td>
<td>---</td>
</tr>
<tr>
<td>Sec. Sci. 90-A</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Humanities</td>
<td>---</td>
</tr>
<tr>
<td>2</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

NOTE — Degree Programs are Suggested Patterns Only
SUPERVISORY TRAINING
Certificate Program

Southern California’s rapid expansion has led to a corresponding growth in the demand for supervisors to serve as a link between middle management and the employee. The supervisor must have an intimate knowledge of the process involved, and must also understand the objectives and the problems of the employer. The supervisory training certificate is designed to provide a highly practical as well as theoretical application of principles that will assist in the development of a foreman or supervisor. The program is designed for the new supervisor as an entry to more advanced management training. A high school diploma is not required to enroll in these courses.

Required Courses:

Supervisory Tr. 51 Elements of Supervision 3
Supervisory Tr. 52 Basic Psychology for Supervisors 3
Supervisory Tr. 53 Human Relations 3
Supervisory Tr. 55 Organization & Management 3
Supervisory Tr. 59 Written Communications for Supervisors 3

Nine units from:

Supervisory Tr. 54 Labor-Management Relations 3
Supervisory Tr. 56 Supervisor’s Responsibility for Personnel Management 3
Supervisory Tr. 57 Oral Communications for Supervisors 3
Supervisory Tr. 58 Industrial Economics 3
Supervisory Tr. 60 Cost Control 3
Data Proc. 1 Introduction to Data Processing 3
Supervisory Tr. 99-ABCD Work Experience (elective) 1-16

or any of the Middle Management courses

Associate in Arts Degree
Freshman Year

Physical Education 1
Psychology 49 (elective) 1
English 50-A or 1-A 3
English 50-B or 1-B or Speech 51 or 1 American Studies 3
Supervisory Training 99-A (elective) 1-4
Supervisory Training 51 3
Supervisory Training 52 3
Supervisory Training 53 3
Supervisory Training 54 3
Supervisory Training 58 3
Science requirement 2-3

16-17 14-17

NOTE — Degree Programs are Suggested Patterns Only

Occupational Programs

Surveying Technology
Certificate Program

The Surveying Technology program will prepare students for career advancement in surveying. If combined with the appropriate field experience, it may lead to party chief and eventually California state licensing as a land surveyor.

Surveying Tech. 50 Surveying Techniques 4
Surveying Tech. 51 Surveying Mathematics 4
Surveying Tech. 52 Surveying Practices 4
Surveying Tech. 53 Highway Curves Surveying 4
Surveying Tech. 54 Traverse Surveying 4
Surveying Tech. 55 Map Surveying 4
Surveying Tech. 56 Land Surveying 4
Surveying Tech. 57 Control Surveying 4
Surveying Tech. 59 Work Experience (elective) 4-16

The above 32 units in the certificate program will be counted as the major. Completion of the following general education requirements:

English I-A or 50-A requirements 3
English I-B or 50-A or Speech 1 or 51 requirement 3
Social Sciences requirement 6
Physical Education, if required 2
Health Science requirement 2
Humanities requirement 2
Plus electives totaling 60 units of college work as required for an A.A. Degree.

Welding Technology
Certificate Program

Welding 15-AB Introduction to Basic Arc Welding 4
Welding 25-AB Introduction to Oxyacetylene Welding 4
Welding 55-AB Introduction to Basic Inert Gas Welding 4
Welding 60-AB Advanced Welding Laboratory 4
Welding 70-AB Work Experience 4
Engineering 51 Blueprint Reading 4

Associate in Arts Degree
Freshman Year

Physical Education 1
Welding 15-AB 2
Welding 25-AB 2
Engineering 51 1
Mathematics 51 2

2 2 2

Total Units 21

NOTE — Degree Programs are Suggested Patterns Only
The following section includes a description of courses which the Board of Trustees has authorized the college to offer. Each course description is headed by a title line stating the course number, title, units per semester. The second line contains a statement of course prerequisites, if any. Following the course description is the number of hours of classroom attendance required weekly.

Generally, the letter “A” attached to a course number refers to the first (fall) semester’s work and is a prerequisite for enrollment in the second (spring) semester; ordinarily the “B” section is a prerequisite for “C”, and the “C” prerequisite for “D”. Some courses are offered only in the summer. Whether or not a course is offered in any particular year depends on sufficient enrollment and availability of staff and facilities. Students are advised to consult the class schedule for courses actually offered.

Riverside City College serves students wishing to take college and university parallel courses, to prepare for specific occupations, or to develop certain skills and knowledges. It is important that students study carefully the detailed course description and numbering system in this catalog.

The program of instruction, either academic or occupational, is conducted as a college program and therefore, the courses may be accepted for transfer credit by colleges and universities which may recognize these courses in their degree curricula. Most college and university parallel courses (transfer courses) are numbered 1 through 49. Courses numbered 50 and above, while not designed primarily for transfer credit, are accepted for transfer credit by some colleges and universities. Since most of these latter courses are not ordinarily offered in the university or four-year colleges, they may not be applicable to the requirements for the baccalaureate degree.

A list of courses designated as appropriate for baccalaureate credit to both the University of California and the California State University and Colleges is available in the Counseling Center, but students are advised to confer with their counselors regarding the transferability of courses. Four-year institutions may allow differing amounts of credit for the transfer courses taken at community colleges. Some state colleges and all branches of the University of California are on the quarter system.

Work Experience Education

The purpose of work experience education is to provide on-the-job experience to give a deeper understanding of the relationships between classroom theory and its practical application in a real world-of-work environment. There are two work experience programs: general and occupational.

General Work Experience Education

This program provides career guidance, job information, and other experiences to students employed in jobs not necessarily related to
their classroom work. The student should not take more than three units per semester, and not more than six units during his enrollment at RCC. The class consists of one hour lecture and ten hours of work experience weekly. The Veterans Administration has ruled that General Work Experience is not acceptable for veterans benefits (GI Bill).

Occupational Work Experience Education

This program is designed to coordinate on-the-job training with classroom instruction. Supervised employment is related to the occupational goal of the student.

Each student will be required to register in the lecture class the first semester he enrolls in any occupational work experience program. Thereafter, the instructor/coordinator may waive the requirement of the lecture and may grant credit only on the hours of work experience if the student is in a related occupational class. The Veterans Administration has ruled that all veterans must attend the weekly lectures each semester to receive veterans benefits (GI Bill). for Occupational Work Experience. The instructor/coordinator assigns course units up to the maximum allowed when in his opinion the student is pursuing a planned program of work experience which extends beyond that of previous employment.

For the veterans receiving benefits and students in occupational work experience enrolled in the lecture, unit credit will be allowed on the following basis:

- Lecture plus 5 hours work per week = 1 unit of credit
- Lecture plus 10 hours work per week = 3 units of credit
- Lecture plus 15 hours work per week = 4 units of credit

For the students who have taken the lecture and who enroll in occupational work experience only, unit credit will be allowed as follows:

- 5 hours work per week = 1 unit of credit
- 10 hours work per week = 2 units of credit
- 25 hours work per week = 3 units of credit
- 20 hours work per week = 4 units of credit

The following Occupational areas offer a work experience course:

**BUSINESS DIVISION**
- Data Processing
- Marketing
- Secretarial Science

**LIBRARY DIVISION**
- Library (Spring Semester only)

**PHYSICAL SCIENCE DIVISION**
- Surveying

**SOCIAL SCIENCE DIVISION**
- Community Services

**VOCATIONAL DIVISION**
- Administration of Justice
- Agri-Business
- Air Conditioning & Refrigeration
- Automotive Technology
- Dental Technology
- Electronics
- Graphic Arts
- Middle Management
- Paramedics
- Photography
- Structural Inspection
- Supervisory Training
- Welding

**FINE & APPLIED ARTS**
- Dietetic Supervisors
- Early Childhood

Students must be enrolled in at least eight units of college work including work experience if they are to receive work experience credit. For students enrolled in the summer session work experience courses, in order to receive credit they must also be enrolled in at least one other course besides work experience. Work Experience units are accepted as credit for graduation.

**ACCOUNTING**

1-A Principles of Accounting, I

- Prerequisite: Sophomore standing.
- An introduction to accounting, theory and practice. The first semester presents the recording, analyzing, and summarizing procedures used in preparing balance sheets and income statements. Three hours lecture weekly.

1-B Principles of Accounting, II

- Prerequisite: Accounting 1-A.
- Continuation of the introduction to accounting theory and practice, which includes payroll and tax accounting, partnership and corporation accounts, manufacturing and cost accounting and the interpretation of financial statements. Three hours lecture weekly.

60-A Elementary Accounting, I

- Prerequisite: Bus. Ed. 50-A, or may be taken concurrently.
- Basic topics to be covered will include journalizing, posting, financial statements, special journals, accruals and year-end summaries. Increased emphasis will be placed on practical problems, and additional time will be devoted to practice set material. Three hours lecture weekly.

60-B Elementary Accounting, II

- Prerequisite: Accounting 1-A or 60-A
- Special journals, depreciation, partnerships, concepts of corporation accounting, and auditing; additional accounting situations peculiar to year-end closings. A second practice set will be used. Additional accounting theory will be developed, but emphasis will be on practice rather than theory. Three hours lecture weekly.

61 Cost Accounting

- Prerequisite: Accounting 1-B or Accounting 60-B
- Job order costs, process costs, standard costs, estimated costs, factory ledgers, by-products, joint products, and distribution costs. These principles are applied to a practice manufacturing set. Three hours lecture weekly.
ACCOUNTING

62 Payroll Accounting  Fall 2 units
Prerequisite: Accounting 60-A or Sec. Sci. 63-A, or may be taken concurrently, or 1 year of high school bookkeeping.
Accounting aspects of the Social Security Act, the California Unemployment Insurance Act and the California Workman's Compensation Insurance Act. Two hours lecture weekly.

63 Income Tax Accounting  Spring 3 units
Prerequisite: None.
Theory and method of preparation of income tax returns for individuals, partnerships and corporations. Actual forms are studied and returns are prepared. Three hours lecture weekly.

ADMINISTRATION OF JUSTICE

Note: All Administration of Justice majors are required to take Administration of Justice 1, 2, 3, 4, 5, and Physical Education 30 (First Aid).

1 Introduction to the Administration of Justice 3 units
Prerequisite: None.
The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various sub-systems; role expectations and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education and training for professionalism in the system. Three hours lecture weekly.

2 Principles and Procedures of the Justice System 3 units
Prerequisite: None.
The role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, corrections. An historical exposure to each of the sub-systems' procedures from initial entry to final disposition and the relationship each segment maintains with its system members. Three hours lecture weekly.

3 Concepts of Criminal Law 3 units
Prerequisite: None.
Historical development, philosophy of law and constitutional provisions; definitions, classification of crimes, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force. Three hours lecture weekly.

4 Legal Aspects of Evidence 3 units
Prerequisite: None.
Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. Three hours lecture weekly.

5 Community Relations 3 units
Prerequisite: None.
An in-depth exploration of the roles of administration of justice practitioners and agencies. The inter-relationships and role expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive relationships between members of the system and the public. Three hours lecture weekly.

6 Patrol Procedures 3 units
Prerequisite: None.
Responsibilities, techniques and methods of police patrol. Three hours lecture weekly.

7 Traffic Control and Regulation  Fall 3 units
Prerequisite: None
Traffic law enforcement, regulation and control; fundamentals of traffic accident investigation; California Vehicle Code. Three hours lecture weekly.

8 Juvenile Law and Procedures  Spring 3 units
Prerequisite: None.
The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. Three hours lecture weekly.

11 Police Administration  Fall 3 units
Prerequisite: Second-year Administration of Justice students or law enforcement personnel.
Principles of law enforcement agency administration. Organization, planning and management; personnel management, training, and public relations. Administrative functions in vice, crime delinquency prevention and control, patrol, crime investigation, traffic, communications, statistics, and records. Three hours lecture weekly.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Criminal Investigation</td>
<td>Spring 3 units</td>
</tr>
<tr>
<td>15</td>
<td>Narcotics</td>
<td>3 units</td>
</tr>
<tr>
<td>16</td>
<td>Interviewing and Counseling</td>
<td>3 units</td>
</tr>
<tr>
<td>17</td>
<td>Fundamentals of Crime and Delinquency</td>
<td>3 units</td>
</tr>
<tr>
<td>18</td>
<td>Institutional and Field Services</td>
<td>3 units</td>
</tr>
<tr>
<td>57-ABCD</td>
<td>Administration of Justice Intern Program</td>
<td>1-2-3-4 units</td>
</tr>
<tr>
<td>59</td>
<td>Peace Officers' Basic Training School</td>
<td>8 units</td>
</tr>
<tr>
<td>60</td>
<td>Peace Officers' Basic Training</td>
<td>Fall 3 units</td>
</tr>
<tr>
<td>61</td>
<td>Police Supervision</td>
<td>Fall 3 units</td>
</tr>
<tr>
<td>62</td>
<td>Investigators' Training</td>
<td>Fall 3 units</td>
</tr>
</tbody>
</table>

Prerequisites and Course Descriptions:

13 Criminal Investigation

- **Prerequisite**: None.
- Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow-up and case preparation. Three hours lecture weekly.

15 Narcotics

- **Prerequisite**: Completion of Administration of Justice 1 recommended.
- A basic understanding of narcotics and dangerous drugs, the causes of addiction or habituation, identification of narcotics, hallucinogens, enforcement procedure and legal aspects. Three hours lecture weekly.

16 Interviewing and Counseling

- **Prerequisite**: Completion of Administration of Justice 1.
- Introduction to approaches of behavior modification through interviewing and counseling. An overview of the techniques available to entry level practitioners in corrections in counseling and interviewing. Creates an awareness of advanced methods utilized by professional counselors. Traces the development of positive relationships between the client and correctional personnel. Fifty-four hours lecture.

17 Fundamentals of Crime and Delinquency

- **Prerequisite**: Completion of Administration of Justice 1.
- An introduction to major types of criminal behavior, role careers of offenders, factors which contribute to the production of criminality or delinquency; methods used in dealing with violators in the justice system; the changing roles of police, courts, and after-care process of sentence, probation, prisons, and parole; changes of the law in crime control and treatment processes. Fifty-four hours lecture.

18 Institutional and Field Services

- **Prerequisite**: Completion of Administration of Justice 1.
- Philosophy and history of correctional services. A survey of the correctional sub-systems of institutions by type and function, probation concepts, and parole operations. A discussion of correctional employee responsibilities as applied to offender behavior modification via supervisory control techniques. Rehabilitation goals as they affect individual and inmate cultural groups in both confined and field settings. Fifty-four hours lecture.
ADMINISTRATION OF JUSTICE

of evidence; interrogation and interview; laws of arrest, search and seizure; sources of information; administrative hearings; penal code; public and human relations; court appearance and testimony. Forty hours weekly for two weeks.

63 Peace Officers’ Advanced Training 2 units

Prerequisite: Completion of Administration of Justice 60 or equivalent.

Intensive instruction at the intermediate level designed for the experienced peace officer on a non-supervisory level. Length of class: 8 hours daily, 5 days a week, for a total of 40 hours.

65 Jail Operations 2 units

Prerequisite: Completion of Administration of Justice 60 or equivalent.

Fundamentals of jail operation and procedure including admission procedures, jail security and supervision of prisoners, nutrition of inmates, visits, mail and packages, sanitation, housekeeping and safety; special problems of unusual prisoners; riots and escapes; and medical services; the philosophy of penology and current programs; laws pertaining to custody; principles of jail planning and program planning. Length of course 8 hours per day, 5 days a week for a total of 40 hours.

68 PC 832—Arrest & Firearms non-credit

Prerequisite: None.

Designed to satisfy the curriculum standards of the Commission on Peace Officer Standards and Training as required by Penal Code Section 832 for peace officers; includes laws of arrest, search and seizure, methods of arrest, discretionary decision making and, where applicable, firearms; mandatory for all peace officers who do not possess a basic certificate awarded by the Commission on Peace Officer Standards and Training. Length of class — 8 hours a day, 5 days a week for a total of 40 hours.

69 Field Evidence Technician 3 units

Prerequisite: None.

Techniques of evidence collection and preservation; includes crime scene recording; fingerprint evidence; volatile evidence; micro-evidence; fragile evidence; impression evidence; firearms evidence; crime scene search. Designed for law enforcement personnel assigned for evidence gathering functions. Thirty-eight hours lecture and 42 hours of lab.

AERONAUTICS

70 First Aid for Public Safety Officers non-credit

Prerequisite: None.

Instruction in standard first aid, including emergency treatment of injuries, including wounds, shock, burns, poisoning, drug abuse, injuries due to extremes of heat and cold, emergency rescue/short distance transfer, cardio-pulmonary resuscitation and emergency childbirth. Eight hours daily, three days a week, for a total of twenty-four hours.

71 Crisis Intervention for Criminal Justice System 2 units

Prerequisite: None.

A skill oriented program designed to provide criminal justice system personnel with skills necessary for dealing effectively with crisis situations encountered in day-to-day activities. Forty hours, (24 hours lecture and 16 hours laboratory), eight hours per day for five days.

72 Enforcement of Boating Safety 2 units

Prerequisite: Completion of Administration of Justice 60 or equivalent.

A course designed primarily for those who are, or intend to be, engaged in enforcing the Harbors and Navigation Code. The course is designed to familiarize students with the law and interpretations of the law as it pertains to the operational and equipment requirements for boats. Also, subjects will be taught which will assist in training the student in special fields of public safety. Eight hours per day, five days per week for one week.

73 Basic Drug Law Enforcement 4 units

Prerequisite: Completion of Administration of Justice 60 or equivalent.

A highly intensified basic course in the general tactics and techniques of drug law enforcement. Includes the identification of contraband and controlled substances; medical aspects of drug abuse and overdose; identification of the drug abuser; investigation of clandestine laboratories, licitlation, and smuggling. Deals with aspects of search and seizure, surveillance, raids, sources of information and undercover operation; the influence of various forms of organized crime. Eight hours per day, five days per week for two weeks.

AERONAUTICS

51-A Basic Ground School 3 units

Prerequisite: None.
AERONAUTICS

Meets the ground school requirements of the FAA Private Pilot's Certificate. Emphasis is placed on the study of theory and mechanics of flight, Federal Aviation regulations, meteorology, navigation, communications, and general service of the aircraft. Three hours lecture weekly.

51-B  Advanced Ground School  3 units
Prerequisite: Aeronautics 51-A or Private Pilot's Certificate or relevant experience.

Meets the ground training and aeronautical knowledge requirements for the FAA Commercial Pilot Certificate. Emphasis is placed upon the study of FAA regulations, meteorology, navigation, principles of safe flight operation including theory of flight, operating and maintaining airplanes, and commercial flight operations. Three hours lecture weekly.

52  Instrument Ground School  3 units
Prerequisite: Aeronautics 51-A or 51-B, private or commercial license or relevant experience.

AGRI-BUSINESS

5  General Horse Husbandry  4 units
Prerequisite: None.
The overall goal of General Horse Husbandry is to prepare students for employment in the field of horse husbandry. The course offers basic and advanced skills and techniques to be learned from a nutritional, physiological, anatomical, and management standpoint. Emphasis will be placed on selection, feeding, cost consideration in owning a horse, breeding, training, selling and shipping, shoeing, and veterinary problems. Three hours lecture and three hours lab weekly.

7  Agricultural Plant Science I  3 units
Prerequisite: None.
An overview of the occupational opportunities in the fields of Agronomy, fruit crops, ornamental horticulture, and truck crops. Structure and functions of plants in the Agriculture Industry, propagation, fertilization, soil, and seed bed preparation will be covered. Three hours lecture weekly.

10  Introduction to Agri-Business  2 units
Prerequisite: None.
An overview of the occupational opportunities in the total agri-business complex. Scope and importance of related agricultural industries in California. Basic organization, operational characteristics and problems of agricultural business firms. Two hours lecture weekly.

12  Plant Identification and Materials, I  4 units
Prerequisite: None.
Identification, habits of growth, cultural requirements, and landscape use of about 225 ornamental plants. Three hours lecture and three hours lab weekly.

13  Plant Identification and Materials, II  4 units
Prerequisite: None.
Identification, habits of growth, cultural requirements and landscape use of an additional 225 ornamental plants used in California. Three hours lecture and three hours lab weekly.

20  Agriculture Sales and Service  3 units
Prerequisite: None.
Growth and opportunities in agricultural sales. Factors involved in developing sales programs for farm operations and farm-related businesses. Three hours lecture weekly.

23  General Animal Science  4 units
Prerequisite: None.
The livestock industry in the U.S. and California, its importance in agriculture and the national economy; needs, terminology, phases and cycles of production for beef and dairy cattle, sheep, swine, poultry and horses. The importance and use of the basic sciences in the livestock industry. Three hours lecture and three hours lab weekly.
AGRI-BUSINESS

33 Turf Grass Management 3 units

Prerequisite: None.

Designed to bring about an understanding of the major factors controlling the production of good turf grasses and the modifying effects of these factors upon each other. Two hours lecture three hours lab weekly.

99-ABCD Work Experience 1-2-3-4 units

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

This class is designed to assist the student in Agri-Business to individualize the employment and employment-related activities to his classroom instruction. One hour lecture/discussion plus five to twenty hours employment per week.

AIR CONDITIONING AND REFRIGERATION

50-A Air Conditioning and Refrigeration 5 units

Prerequisite: None.

Fundamentals in basic refrigeration. The nomenclature and terminology used in industry and the basic refrigeration systems. The history, physics and chemistry of refrigeration. Four hours lecture and three hours lab weekly.

50-B Advanced Refrigeration 5 units

Prerequisite: Air Conditioning and Refrigeration 50-A.

Consists primarily of troubleshooting, diagnosis and repair of domestic refrigeration equipment to include refrigerators, freezers, window air conditioners. Also includes preventive maintenance and repair. Four hours lecture and three hours lab weekly.

51-A Environmental Control 5 units

Prerequisite: Air Conditioning and Refrigeration 50-B.

Consists of air conditioning design and applications. Covers electronic air cleaners, humidifiers, dehumidifiers, mechanical media air filtration, air conditioning design and load calculations. Also includes preventive maintenance and repair. Four hours lecture and three hours lab weekly.

51-B Industrial Commercial Refrigeration 5 units

Prerequisite: Air Conditioning and Refrigeration 51-A.

Consists of design and application of commercial and industrial refrigeration systems. Covers pneumatic control systems, hydraulic systems, electronic systems that are currently in use in industry today. Also includes special applications covering expendable refrigerant, absorption, thermal electric, cascade and low temperature exotic systems. Designs and applications of all these systems include preventive maintenance and repair. Four hours lecture and three hours lab weekly.

70-ABCD Work Experience 1-2-3-4 units

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

This class is designed to coordinate the student's on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experience per week.

ANATOMY AND PHYSIOLOGY

2-A Anatomy and Physiology, I 4 units

Prerequisite: None. High school chemistry or Chemistry 2 concurrently are recommended. Also recommended: a high school biological science course.

Physiological processes in man relating to functions and structures in muscular, circulatory, respiratory, digestive, nervous, excretory, reproductive and endocrine systems. Designed for art, pre-nursing, pre-medical, physical education, and dietetic majors. Two hours lecture and six hours lab weekly.

2-B Anatomy and Physiology, II 4 units

Prerequisite: Anatomy and Physiology 2-A recommended.

Continuation of Anatomy and Physiology 2-A. Two hours lecture and six hours lab weekly.

ANTHROPOLOGY

1 Physical Anthropology 3 units

Prerequisite: Recommended high school biology or a course in biological science.

The relation of man to the animal world; human genetics; human evolution, with theories on the origin and antiquity of man; fossil men; racial classifications. Three hours lecture weekly.

2 Cultural Anthropology 3 units

Prerequisite: None.

The nature of human culture, with a survey of the range of cultural phenomena of primitive peoples; processes of cul-
ANTHROPOLOGY

Tural change; social organization; primitive religions; technology and the impact of western culture on primitive societies. Three hours lecture weekly.

4 Native American Cultures 3 units
Prerequisite: None.
This is a survey course of major North American Indians north of Mexico. The course is a description of native American cultures in pre-Columbian times, with emphasis on the Indians of California. Three hours lecture.

3 Prehistoric Cultures 3 units
Prerequisite: None. Anthropology 1 recommended.
The development of culture and the rise of civilization from the earliest times to the beginnings of recorded history, utilizing the concepts, methods, and data of archaeology. Three hours lecture weekly.

20 Introduction to the Primates 3 units
Prerequisite: None. Recommended Anthropology 1 or 3 or a recent life science course with lab or a recent high school biology course.
An up-to-date survey of hominid evolution presented in a relatively non-technical manner, covering basic paleontological principles, theories of hominid evolution, the major hominid fossils, their physical and cultural characteristics. Three hours lecture weekly.

APPRENTICE ELECTRICIANS PROGRAM

50-AB Apprentice Wireman, I 3-3 units
Prerequisite: Indentured apprentice.
A beginning course for full-time employed apprentices in electrical fields. Includes history and scope of the trade, the apprenticeship system, introduction and review of electrical codes and standards, safety practices, basic and applied scientific theory, review of engineering drawing and basic blueprint reading including series-parallel and combination circuits, wire resistance, wiring materials and devices, tools, math review, generator and motor construction. Two hours lecture and four hours lab weekly.

51-AB Apprentice Wireman, II 3-3 units
Prerequisite: Completion of 50-AB.

ART

Covers the principles of DC circuits, power supply, meters, machines, and wiring. The fundamentals of AC resistance impedance, vectors, polyphase circuits, specialized tools and atomic energy in the construction industry. Shop and laboratory work on direct and alternating current machinery and electrical control equipment. Commercial and industrial wiring methods including low voltage systems, signs, switchboards, transformers, electronic welders, heaters and X-ray equipment. Two hours lecture and four hours lab weekly.

52-AB Apprentice Wireman, III 3-3 units
Prerequisite: Completion of 50-AB, and 51-AB.
An advanced course for those in electrical occupations. Includes alternators, signal and polyphase AC motors, wiring systems with less than 400 volts, and three phase delta wiring systems. Two hours lecture and four hours lab weekly.

53-AB Apprentice Wireman, IV 3-3 units
Prerequisite: Completion of 50-AB, 51-AB, and 52-AB.
Advanced study and practical experience in atomic safety, vacuum tubes, gaseous and vapor filled tubes, amplifier circuits, time delay and relays. Study and review of all codes, blueprint reading and motor control. Two hours lecture and four hours lab weekly.

ARCHITECTURE

50-A Elementary Design, I 3 units
Prerequisite: None.
Introduction to basic concepts of architecture and technical drafting, using original designs, including plans, elevations, plot plans, presentation drawings, and theory. Six hours lab weekly.

50-B Elementary Design, II 3 units
Prerequisite: Architecture 50-A.
Continuation of the basic concepts of architecture and technical drafting, using original designs, including plans, elevations, plot plans, presentations, study models, and theory. Six hours lab weekly.

ART

1 History and Appreciation of Art: Prehistoric, Ancient, and Medieval 3 units
Prerequisite: None.
Survey of the history and appreciation of painting, architecture, sculpture and the minor arts. Prehistoric, ancient, and medieval periods. Three hours lecture weekly.

2 History and Appreciation of Art: Renaissance and Modern 3 units
Prerequisite: None.
Survey of the history and appreciation of painting, architecture, sculpture and the minor arts. Renaissance and modern periods. Three hours lecture weekly.
A special section of this course will be offered for deaf students.

3 Art for Teachers 3 units
Prerequisite: None.
Problems in the teaching of art to children. Creative experience in the composition of pictures, decorative designs, and the representation of natural objects. For education majors and others not majoring in art. Two hours lecture and two hours lab weekly.

4-A Composition in Drawing and Painting, I Fall 3 units
Prerequisite: None.
Basic studies of form, space organization, color, and composition. Work in charcoal, ink, watercolor, pastel, and crayon. Two hours lecture and four hours lab weekly.

4-B Composition in Drawing and Painting, II Spring 3 units
Prerequisite: Art 4-A.
Techniques of sketching in preparation for painting. Work in oil. Two hours lecture and four hours lab weekly.

5 Introduction to Art 2 units
Prerequisite: None.
The visual arts in contemporary times. Appreciative and critical approaches. Art in the community. Art and the individual. Painting, sculpture, architecture, industrial design, advertising art, the crafts. Two hours lecture weekly.

10 Beginning Jewelry 2 units
Prerequisite: None.
A basic metals course using techniques as applied to the design and creation of jewelry. One hour lecture and three hours lab weekly.

11 Intermediate Jewelry 2 units
Prerequisite: Jewelry 10.
An advanced course in the processes of jewelry making. A study in one area, such as casting, by arrangement with the instructor. One hour lecture and 3 hours lab weekly.

12 Intermediate Jewelry: Forging and Fabrication 2 units
Prerequisite: Jewelry 10.
Advanced processes of jewelry making. The study of forging and fabricating metals and materials used in jewelry. One hour lecture and 3 hours lab weekly.

15 Beginning Ceramics 3 units
Prerequisite: None.
A fundamental course in pottery making. Slab and coil techniques and wheel throwing, with emphasis on ceramic design, glazing, and craftsmanship. Students are expected to pay for their own clay. Two hours lecture and four hours lab weekly.

16 Intermediate Ceramics 3 units
Prerequisite: Art 15.
Emphasis on wheel-thrown shapes. Study of glazes and decoration techniques. Good craftsmanship and development of suitable pottery forms expected. Students are expected to pay for their own clay. Two hours lecture and four hours lab weekly.

20 Beginning Sculpture 3 units
Prerequisite: None. Background in ceramics or three-dimensional work desirable.
Basic elements of sculpture, with emphasis on the human form. Problems worked out in plasticine, clay, and plaster of paris. Some carving in wood and stone. Students are expected to pay for their own materials. Two hours lecture and four hours lab weekly.

21 Intermediate Sculpture 3 units
Prerequisite: Art 20 or background in sculpture.
Development of good sculpture form with emphasis on human figure. Work in clay, plaster, stone, or wood. Students are expected to pay for their own materials. Two hours lecture and four hours lab weekly.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Schedule</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Basic Design</td>
<td>3</td>
<td>Fall</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>Study of line, shape, pattern and texture applied to a variety of projects with cut paper, chalk, paint, found objects, collage, and cardboards. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Design and Color</td>
<td>3</td>
<td>Fall</td>
<td>Art 22.</td>
</tr>
<tr>
<td></td>
<td>Creative experiences in three-dimensioned form and space projects. Experimental construction in a variety of materials, with color relationships integrated with the designs. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Watercolor Painting</td>
<td>3</td>
<td>Fall</td>
<td>Art 4-A, or 22.</td>
</tr>
<tr>
<td></td>
<td>A study of the design and composition elements in painting. The student will work in transparent watercolor. This course deals with advanced painting problems in still life, landscape, seascape, and figure painting. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Oil Painting</td>
<td>3</td>
<td>Spring</td>
<td>Art 4-B or 25.</td>
</tr>
<tr>
<td></td>
<td>A study of various techniques in painting. The student will work with advanced painting problems in oil. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Printmaking</td>
<td>3</td>
<td></td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>Silkscreen, linoleum block, wood cuts, and monoprints of figure, landscape, still life, and imaginary subjects. Emphasis upon individuality in personal styles. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Advertising Illustration</td>
<td>3</td>
<td>Fall</td>
<td>None. Recommended: Art 4-A.</td>
</tr>
<tr>
<td></td>
<td>Techniques of pen and ink, wash, charcoal, pencil, scratchboard, and opaque watercolor applied to illustrations for consumer products, stories, interior furnishings, campus publications, and fashion apparel. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Lettering and Typography</td>
<td>3</td>
<td>Fall</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>Prerequisites of basic lettering. The design and construction of letter forms, including pen and brush lettering for use in sign painting, calligraphy, and art. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Advertising Layout</td>
<td>3</td>
<td>Spring</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>Newspaper advertising paste-up of headings, text, and illustration. Rough, comprehensive, and composite layouts for brochures, mailers, and leaflets. The use of screens and other reproduction processes basic to the commercial and graphic art relationship. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Figure Drawing</td>
<td>3</td>
<td>Fall</td>
<td>Art 4-A or 22.</td>
</tr>
<tr>
<td></td>
<td>Drawing from the model. Studies of style in figure drawing by means of prints and original drawings. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Figure Painting</td>
<td>3</td>
<td>Spring</td>
<td>Art 4-B or 40.</td>
</tr>
<tr>
<td></td>
<td>Painting from the model. Study of types in the best historical sources as well as experimentation in new surface techniques. Two hours lecture and four hours lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47-A</td>
<td>Problems in Ceramics and Sculpture, I</td>
<td>3</td>
<td>Fall</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>Designed for students who have had one or more years of sculpture or ceramics and who show exceptional promise. Emphasis on individual problems, lecture, discussion and independent studio work. Six hours of consultation and lab weekly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47-B</td>
<td>Problems in Ceramics and Sculpture, II</td>
<td>3</td>
<td>Fall</td>
<td>Art 47-A.</td>
</tr>
<tr>
<td></td>
<td>Continued work on more advanced individual problems. Six hours of consultation and lab weekly.</td>
<td></td>
<td></td>
<td>Students may earn a maximum of six units in Art 47-AB.</td>
</tr>
</tbody>
</table>
ART

48-A Problems in Painting, I 3 units

Prerequisite: None.

Independent studio work with emphasis on individual problems for selected students. Work may be in any medium. Six hours of consultation and lab weekly.

48-B Problems in Painting, II 3 units

Prerequisite: Art 48-A.

Continued work on more advanced individual problems. Six hours of consultation and lab weekly.

Students may earn a maximum of six units in Art 48-AB.

ASTRONOMY

1-A Introduction to Astronomy 3 units

Prerequisite: None. Recommended: High school algebra and geometry.

A descriptive survey of the universe: the earth, planets, moons, meteors, sun, stars, nebulae and galaxies. Principles and methods of astronomical investigation are emphasized. Three hours lecture weekly.

1-B Introduction to the Stars 3 units

Prerequisite: Astronomy 1-A.

A descriptive course in the astronomy of the sun, stars, star clusters, and galaxies. Three hours lecture weekly.

AUTOMOTIVE TECHNOLOGY

50 Auxiliary Systems 4 units

Prerequisite: None.

Maintenance and minor repair of generators, regulators, starters, carburetors, fuel pumps, lighting systems, signal systems, power windows and seats, heating and cooling systems, exhaust systems, air conditioning, gauges, and radiator repair. Two hours lecture and six hours lab weekly.

51 Engine Rebuilding 4 units

Prerequisite: None.

Introduction to engine rebuilding using equipment to be found in the average garage. Includes cylinder boring and honing, valve grinding and valve seat refacing, fitting pistons, piston rings, piston pins and connecting rods; rebuilding water pumps and oil pumps; use of micrometers, dial gauges and other precision equipment. Two hours lecture and six hours lab weekly.

52 Chassis and Drive Train Systems 4 units

Prerequisite: None.

Maintenance and repair of clutches, transmissions, drive shafts, universal joints, differentials, rear axles, wheels, brakes, steering gear and shock absorbers. Two hours lecture and six hours lab weekly.

53 Alignment and Brake Service 2 units

Prerequisite: None.

Theory and servicing of suspension, steering and braking systems. Emphasis is placed on wheel alignment and brake system rebuilding. One hour lecture and three hours lab weekly.

54 Tuneup 2 units

Prerequisite: Auto. Tech. 50 and 51.

Theory and practical adjustment, overhaul, and correction of malfunction of components of the electrical and fuel systems. Emphasis is placed on engine malfunction diagnosis using electrical test equipment such as tachometers, dwell meters, oscilloscopes, etc. One hour lecture and three hours lab weekly.

55 Advanced Engine Rebuilding 8 units

Prerequisite: Auto. Tech. 51.

Design and theory of construction and operation of engines. Types of material used and tolerances of component parts are discussed. Testing, trouble diagnosis, and rebuilding of an engine are required. Four hours lecture and twelve hours lab weekly.

56 Advanced Alignment and Brakes 4 units

Prerequisite: Auto. Tech. 53.

Theory and practical application of suspension systems, steering and alignment systems, including caster and camber, toe-in and toe-out, independent and knee action suspension and braking systems. Two hours lecture and six hours lab weekly. (Also offered in Extended Day as Automotive Technology 69-AB.)

57 Advanced Automatic Transmission 4 units

Prerequisite: Auto. Tech. 52.

The theory of operation, maintenance, repair and servicing of various automatic transmissions. Briefly covers engine
tuneup and differential gear ratios in relation to automatic transmissions. Theories of design and operation of fluid couplings, torque converters, automatic transmissions, and power activated units. Two hours lecture and six hours lab weekly. (Also offered in Extended Day as Automotive Technology 67-AB.)

58 Advanced Tuneup 8 units

Prerequisite: Auto. Tech. 54.

Design and operation of electrical and fuel systems. Multiple carburetion and fuel injection systems. Theories of ignition timing, carburetor adjustments and methods of testing and troubleshooting. Four hours lecture and twelve hours lab weekly.

59 Automotive Air Conditioning 2 units

Prerequisite: Auto. Tech. 51 and 52 (or equivalent trade experience).

Scientific principles applying to refrigeration and air conditioning and the electrical and electronic control systems used in automotive air conditioning. Practical work includes diagnosis of problems in air conditioning, as well as their adjustment, repair, and overhaul. One hour lecture and three hours lab weekly.

60-A Small Engine Operation and Servicing, I 2 units

Prerequisite: None.

Development of employable skills in the servicing of small gasoline engines. The major assignments will cover lawn mowers, boat engines, and similar engines. One hour lecture and three hours lab weekly.

60-B Small Engine Operation and Servicing, II 2 units

Prerequisite: Auto. Tech. 60-A.

Further assignments in small engine repair. One hour lecture and three hours lab weekly.

66 Automatic Transmission Maintenance 2 units

Prerequisite: None.

Repair and adjustment of automatic transmissions. Students disassemble and reassemble the various types of automatic transmissions, replace or repair defective parts, adjust bands and linkage, and practice the removal and installation of transmissions. One hour lecture and three hours lab weekly.
BANKING AND FINANCE

BANKING AND FINANCE

51 Principles of Bank Operations

Prerequisite: None.

Provides the fundamentals of bank functions in a descriptive fashion, enabling the beginning banker to view his chosen profession in a broad and operational perspective. Banking is increasingly dependent upon personnel who have the broad perspective necessary for career advancement. This course is a part of the American Institute of Banking sequence. Three hours lecture weekly.

52 Analyzing Financial Statements

Prerequisite: Banking and Finance 51.

Part of the American Institute of Banking sequence leading to a certificate of Bank Management. Covers how to extend credit soundly and constructively; a banker must be able to understand and interpret financial statements. Three hours lecture weekly.

53 Installment Credit

Prerequisite: Banking and Finance 51.

Part of the American Institute of Banking sequence leading to a certificate of Bank Management. Designed to emphasize the establishment of credit, the obtaining and checking credit information, on servicing the loan, and on collecting the amounts due. The truth in lending law and the uniform Consumer Credit Code are emphasized. Three hours lecture weekly.

BIOLOGY

1 General Biology

Prerequisite: None.

A study of life as revealed in plants and animals using cellular, organismic and ecological approaches. The basic principles of morphology, physiology, taxonomy and the social implications of biology are included. Three hours lecture and three hours lab weekly.

7 Marine Biology

Prerequisite: None. Recommended: Biology 1 or Zoology 1.

Introduction to physical, botanical and zoological oceanography with emphasis on the ecological interactions of these three fields. Experimentation and observations of both living and preserved organisms in lab are combined with numerous field trips to local tidal areas. Three hours lecture and three hours lab weekly.

BLACK STUDIES

10 Principles of Life Science

Prerequisite: None.

For non-life science majors. An introduction to the principles of life sciences through the study of basic biological concepts of living organisms involving structure, behavior, evolutionary relationships and the social and environmental implications of life science. Three hours lecture weekly.

No credit at the University of California if taken following Biology I.

11 Cell Biology

Prerequisite: High school chemistry or concurrent enrollment in a college chemistry course. Completion of a high school biological science course recommended.

Physical and biochemical aspects of cells including structure and function, membrane systems, bioenergetics, enzymes, respiration, photosynthesis, molecular genetics, and examples of cellular specialization. Three hours lecture and three hours lab weekly.

30 Human Reproduction and Sexual Behavior

Prerequisite: None.

Human anatomy, physiology and behavior as related to sexual reproduction, including discussion of fertilization, pregnancy, childbirth and birth control. Consideration also will be given to homosexuality, venereal disease, sex education, and sexual intercourse and response. Three hours lecture weekly.

36 Man and His Environment

Prerequisite: None.

A study of man in relation to his environment, emphasizing population ecology, energy cycles, pollution, food resources, and conservation of natural resources. Three hours lecture weekly.

In cooperation with representatives of the Black community, Riverside City College has developed a number of courses designed to meet the special needs and interests of Black students. At the same time, these courses provide an opportunity for other students to develop an understanding of and appreciation for the richness of the Black heritage and its contributions to all of American life.

Among these courses are...
### BLACK STUDIES

- English 16—Black American Literature, page 146.
- History 15—Black History—American, page 166.
- Journalism 5—Survey of Black Communications, page 176.

### BOTANY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General Botany</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Plant Morphology, Fall</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Field Botany</td>
<td>4</td>
</tr>
</tbody>
</table>

### BUSINESS ADMINISTRATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>18-A</td>
<td>Business Law, I</td>
<td>3</td>
</tr>
<tr>
<td>18-B</td>
<td>Business Law, II</td>
<td>3</td>
</tr>
</tbody>
</table>

### BUSINESS EDUCATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-A</td>
<td>Business Mathematics, I</td>
<td>3</td>
</tr>
<tr>
<td>50-B</td>
<td>Business Mathematics, II</td>
<td>3</td>
</tr>
<tr>
<td>54</td>
<td>Personal Development for Employment for Women</td>
<td>2</td>
</tr>
<tr>
<td>60</td>
<td>Business Machine Calculators</td>
<td>3</td>
</tr>
<tr>
<td>61</td>
<td>Machine Accounting</td>
<td>2</td>
</tr>
</tbody>
</table>
BUSINESS EDUCATION

64 Personal Development for Employment for Men 2 units

Prerequisite: None.

See Cosmetology 64, Page 124. Credit will not be allowed for both Business Education 64 and Cosmetology 64.

Emphasizes the importance of physical appearance and manner in the social and business world. Four hours lecture/lab weekly.

70-A Small Business Organization Management, I Fall 3 units

Prerequisite: None.

The American enterprise system, the nature and extent of American business, opportunities in business, and types of business organizations such as sole proprietorships, partnerships, and corporations. Three hours lecture weekly.

70-B Small Business Organization Management, II Spring 3 units

Prerequisite: Bus. Ed. 70-A.

Credit policies and procedures, financial records needed in business risks and insurance, banking and financial problems, selecting, training, and promoting employees, government regulations, taxation, and success factors in business. Three hours lecture weekly.

75 Introduction to Business Law 3 units

Prerequisite: None.

An elective course for all students interested in obtaining a background in fundamental, everyday legal problems. Topics are considered from a personal and business point of view, rather than that of the law courts. Three hours lecture weekly.

CHEMISTRY

1-A General Chemistry, I 5 units

Prerequisite: High school chemistry or physics with not less than a C grade, or Chemistry 2-A, or Chemistry 3; mathematics through intermediate algebra with at least a C grade.

The student will explore simple chemical systems, their properties and how they can be investigated and understood in terms of stoichiometry, gas laws, elementary thermodynamics, atomic structure and bonding. Laboratory: Classical and modern techniques in the investigation of chemical systems. Three hours lecture and two 3-hour labs weekly.

1-B General Chemistry, II 5 units

Prerequisite: Chemistry 1-A

Continued exploration of the principles of chemistry with emphasis on kinetics, thermodynamics, acid-base theory, equilibrium, descriptive inorganic chemistry and introduction to organic chemistry. Three hours lecture and two 3-hour labs weekly.

2-A Introductory Chemistry, I 4 units

Prerequisite: None. Math 52 recommended.

Fulfills the needs of non-chemistry majors. Discussion on the nature of matter, molecular structure, aqueous systems, introductory organic chemistry, and applications to environmental topics. Three hours lecture and three hours lab weekly.

2-B Introductory Chemistry, II 4 units

Prerequisite: High school chemistry or equivalent, or Chemistry 2-A.

An introductory course in organic and biochemistry including structure, nomenclature, and reactions of some organic compounds, drugs, structure and metabolism of carbohydrates, lipids, proteins and nucleic acids; enzyme activity and inhibition. Meets the chemistry requirement for nursing, physical education and home economics majors. Three hours lecture and three hours lab weekly.

3 Fundamentals of Chemistry 4 units

Prerequisite: Math 35 (or equivalent) completed or taken concurrently.

A systematic presentation of the chemical and mathematical skills underlying chemistry. Topics will include nature of matter, stoichiometry, thermochemistry, and solution equilibria. Three hours lecture and three hours lab weekly.

5 Quantitative Analysis Spring, Summer 4 units

Prerequisite: Chemistry 1-B, with grade of C or better.

The course presents principles and methods of volumetric and gravimetric analysis and introduces instrumental techniques illustrating ionic equilibria. Two hours lecture and two 3-hour labs weekly.
CHEMISTRY

8  Elementary Organic Chemistry  Spring  4 units

Prerequisite: Chemistry 2-A or Chemistry 3 or Chemistry 1-A, each with a minimum grade of C.

Introduction to the structure, nomenclature, physical properties, reactions, preparation, occurrence, and the uses of the various classes of compounds including the chemistry of heredity. Laboratory work covers the physical properties and chemical reactions of the common classes of organic compounds. Both classical and modern laboratory techniques are introduced. Three hours lecture and one three-hour lab weekly.

12-A  Organic Chemistry, I  Fall  5 units

Prerequisite: Chemistry 1-A, 1-B with a grade of C.

An integrated discussion of aromatic and aliphatic compounds emphasizing the application of modern principles to structure, reactivity, methods of synthesis, physical properties and reaction mechanisms. Laboratory work covers physical properties and chemical reactions of the common classes of organic compounds. Three hours lecture and six hours lab weekly.

12-B  Organic Chemistry, II  Spring  5 units

Prerequisite: Chemistry 12-A.

Continues discussions based on the content of Chemistry 12-A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout Chemistry 12-AB. Considerable emphasis on synthesis. Laboratory includes techniques of synthesis, separation and identification of several compounds and an introduction to qualitative organic analysis. Three hours lecture and six hours lab weekly.

20  Environmental Chemistry  2 units

Prerequisite: None.

Chemistry vitally linked to many of society's environmental problems. Variety of chemical principles is used in the investigation of such areas as technological energy; chemical vs. nuclear reactions; air, water and food pollution. Quantitative concepts will be used but will not involve complicated mathematical manipulations. This course is not designed for chemistry majors. Two hours lecture weekly.

COSMETOLOGY

22  Introduction to Biochemistry  Spring  4 units

Prerequisite: Chemistry 1-A and 1-B; or Chemistry 2-A and 2-B; or Chemistry 3 and 8.

The chemical aspects of living organisms including the chemical characteristics, metabolism and biosynthesis of carbohydrates, lipids, proteins, and nucleic acids; mechanism of enzyme action and enzyme regulation; electron transport and oxidative phosphorylation; cellular organization and function; molecular genetics and its control. Three lectures and one three-hour lab weekly.

CHICANO STUDIES

Several courses have been developed to meet the special needs of Chicano (Mexican-American) students. In varying degrees, these seek to (1) establish the Chicano student's identity with his culture, his history, and the elements of the Chicano life style today; (2) provide many Riverside City College students with objective, well-planned courses involving the often neglected multi-racial aspects of American society; and (3) offer learning experiences that will develop and improve scholastic abilities.

Among these special courses are . . .

English 20—Mexican Literature in Translation, page 147.
History 8 and 9—History of the Americas, page 165.
History 25—History of Mexico, page 165.
History 30 and 31—Intro. to Chicano Studies, page 167.

COSMETOLOGY

The cosmetology curriculum consists of 1600 hours of instruction and requires two semesters and one six-week summer session to complete. It prepares the student to qualify for the California State Board of Cosmetology examination. Upon passing this examination, the student will be given a cosmetologist license by the state. In addition, 48 semester units of college credit are earned and a Certificate of Completion in Cosmetology is issued, providing the student has maintained a C average or better in each course. Consult the Schedule of Classes for admittance and registration periods.

Requirements for Enrollment

1. File application with Admissions Office.
2. Send one copy of high school transcript to Admissions Office. (If tenth grade has not been completed, make application for equivalency test.)
### Cosmetology

#### 51 Introduction to Cosmetology 16 units

Prerequisite: None.

Basic related science in hygiene; structure and chemistry of hair, scalp and hair conditions; cosmetic chemistry, California State Board rules and regulations, safety practices, personal grooming, lab and desk procedures, manipulative skills covering hair coloring, cutting, styling; manicuring, shampooing, facials, and scalp treatment. Eight hours per day, five days per week. (Also offered as Cosmetology 61-AB.)

#### 52 Intermediate Cosmetology 16 units

Prerequisite: Completion of Cosmetology 51 or 61-AB with a grade of C or better.

Theory of anatomy and physiology, skin and scalp diseases and disorders. Manipulative skills in advanced techniques covering advanced hair cutting and styling, salon management, hair coloring, chemical waving, thermal hair relaxing, facials and make-up. Additional supervised work experience in all phases of cosmetology. Increased emphasis on lab and desk duties, concentrating on dispensing of supplies, the use and techniques of the telephone and the appointment book. Eight hours per day, five days per week. (Also offered as Cosmetology 62-AB.)

#### 53 Advanced Cosmetology 16 units

Prerequisite: Completion of Cosmetology 52 or 62-AB with a grade of C or better.

Advanced related science in anatomy and physiology. Manipulative skills include weaving, care, fitting and dressing of wigs; iron curling, men's hair styling and hair shaping (blower technique). Additional supervised work experience in all phases of cosmetology. The training is completed with California State Board examination preparation. Eight hours per day, five days weekly. (Also offered as Cosmetology 63-AB.)

#### 54 Personal Development for Employment for Women 2 units

Prerequisite: None.

Same as Business Education 54. Credit will not be allowed in both Cosmetology 54 and Business Education 54.

Designed for the non-cosmetology major to emphasize the importance of physical appearance and manner in the social and business world. Development of professional attitudes, poise, posture and figure improvement; personal grooming (including make-up and hairstyling), wardrobe planning, wisdom in choice of words and correct voice inflection, and tips on social graces and business etiquette needed by the career woman. Four hours lecture/lab weekly.

#### 55 Manicuring 8 units

Prerequisite: None.

A comprehensive course of 350 hours of instruction specializing in basic care of the hands and nails. One semester of training prepares the student for the California State Board of Cosmetology examination for manicurists and for employment in a beauty, barber, or men's hairstyling salon. Three hours lecture four hours lab plus 14 hours lab arranged weekly.

#### 56-AB Cosmetology Teacher Training 7-7 units

Prerequisite: Current California cosmetologist license.

Prepares the licensed cosmetologist with the knowledge and technical methods necessary to teach cosmetology effectively; preparation for the California State Board of Cosmetology examination for instructors. Three hours lecture, four hours lab and twelve hours arranged weekly.

#### 59-ABCD Men's Hairstyling 2-2-2-2 units

Prerequisite: Current California cosmetologist license.

A specialization for licensed cosmetologists to meet new demands of the industry. Develops fundamental concepts followed by more advanced techniques to upgrade professional standards of employment in a beauty salon or men's styling salon. One and one-half hour lecture and one and one-half hour lab weekly.

#### 60-ABCD Wig Stylist 6-6-6-6 units

Prerequisite: None.

Practical training and technical instruction in wig care, fitting and styling leading to a wig stylist certificate issued by the State Board of Cosmetology. Three hours lecture and nine hours lab weekly.

#### 61-AB Introduction to Cosmetology 8-8 units

Same as Cosmetology 51 but designed for part-time students. Four hours per day, five days weekly, day and extended day.

#### 62-AB Intermediate Cosmetology 8-8 units

Same as Cosmetology 52 but designed for part-time students. Four hours per day, five days weekly.
COSMETOLOGY

63-AB Advanced Cosmetology
Same as Cosmetology 53 but designed for part-time students. Four hours per day, five days weekly.

64 Personal Development for Employment for Men
Prerequisite: None.
Same as Business Education 64. Credit will not be allowed in both Cosmetology 64 and Business Education 64.
Designed to help the modern man emphasize the professional projection of the whole personality in preparation for the social and business world. Interview for employment, on-the-job attitudes are incorporated into the course. Four hours lecture-lab weekly.

66-ABCD Men's Hairpieces
Prerequisite: Cosmetology 59-AB.
Includes skillful designing, fitting, weaving, coloring, styling and merchandising various types of men's hairpieces. One hour lecture and two hours lab weekly.

67-ABCD New Trends and Techniques in Hairdressing
Prerequisite: Current California Cosmetology License.
Designed for the practicing licensed cosmetologists as a review of the new styles and for updating technical knowledge and manipulative skills relating to current styles and trends. One and one-half hours lecture and one and one-half hours lab weekly.

DACTYLOLOGY

70-A Beginning Sign Language
Prerequisite: None.
Fingerspelling and sign language vocabulary development. Two hours lecture weekly.

70-B Intermediate Sign Language
Prerequisite: Satisfactory completion of 70-A or equivalent.
Building on the sign language vocabulary from 70-A, students introduced to approximately 240 more signs. Stress placed on sentence formation and interpretation from verbal to manual communication. Two hours lecture weekly.

DATA PROCESSING

71-A Advanced Sign Language I
Prerequisite: Satisfactory completion of 70-AB or equivalent.
Utilizing the skills acquired in prior courses, emphasis placed on developing a fluent mode of communicating in sign language, and interpreting the signed communication of others. Two hours lecture weekly.

71-B Advanced Sign Language II
Prerequisite: Satisfactory completion of Dactylology 71-A or equivalent.
An advanced course in manual communication designed to develop skills necessary for interpreting for the deaf in a variety of settings. Two hours lecture weekly.

DATAPROCESSING

1 Introduction to Data Processing
Prerequisite: None.

2 Basic Computer Data Processing
Prerequisite: D.P. 1 or D.P. 10 with grade C or better.
In-depth study of those concepts introduced in D.P. 1 to prepare for computer programming language study. Includes hardware, software, program planning, and practical and effective use of the computer in the business world. Three hours lecture weekly.

10 Fundamental Computer Programming
Prerequisite: None.
An introduction to practical computer use for liberal arts students. FORTRAN language will be used because of its universality and its relative ease of use. Two hours lecture, and three hours of lab weekly.

11 Computer Programming—Assembly Language
Prerequisite: D.P. 2, with grade C or better.
Programming digital computers for business data processing. Two hours lecture and three hours lab weekly.
DATA PROCESSING

12-A Computer Programming—Beginning FORTRAN 3 units
Prerequisite: D.P. 2, with grade C or better.
Programming digital computers for business data processing using FORTRAN IV language. Two hours lecture and three hours lab weekly.

12-B Computer Programming—Advanced FORTRAN 2 units
Prerequisite: D.P. 12-A, with grade of C or better.
Writing computer programs in FORTRAN in which such advanced topics as alphabetic sorting, variable format, initialization, bit and byte manipulation, marks, logical arithmetic, radices, and truth tables will be pursued. Two hours lecture weekly.

13-A Computer Programming—COBOL 3 units
Prerequisite: D.P. 2, with grade C or better.
Programming digital computers for business data processing using COBOL language. Two hours lecture and three hours lab weekly.

13-B Computer Programming—COBOL Spring 3 units
Prerequisite: Data Processing 13-A with grade of C or better.
Advanced concepts of COBOL language programming. How fundamental procedural statements are executed efficiently. Two hours lecture and three hours lab weekly.

14 Computer Programming—PL/1 3 units
Prerequisite: D.P. 2, with grade C or better. COBOL and/or FORTRAN are strongly recommended.
Programming for digital computers using PL/1 as the language. Two hours lecture and three hours lab weekly.

15 Computer Programming—RPG 3 units
Prerequisite: D.P. 2, with grade C or better.
Programming for digital computers using RPG (Report Program Generator) as the language. Two hours lecture and three hours lab weekly.

20 Data Processing Systems 3 units
Prerequisite: D.P. 2 and at least one of the following: D.P. 11, 12-A, 13-A, 14, 15, each with a grade of C or better.

DENTAL TECHNOLOGY

Study of data processing in manual, mechanical, semi-automatic, and automatic systems for developing the most effective use of materials, machines, personnel and data. Three hours lecture weekly.

30 Problems in Computer Data Processing Spring 3 units
Prerequisite: D.P. 2, and choice of one of D.P. 11, 12-A, 13-A, 14, 15, each with grade C or better.
Advanced application of the computer to commercial problems. Three hours lecture weekly.

51 Basic Data Processing Operations 1 unit
Prerequisite: D.P. 1 or D.P. 10, with grade C or better.
Basic operations in data processing through “hands on” training. Students operate machines, handle cards, mount magnetic tapes, handle and maintain files and flow-charts, design systems, and practice general techniques for functioning in a data processing installation. Three hours lab weekly.

53 Electro-Mechanical Machines 3 units
Prerequisite: D.P. 1 or D.P. 10, with grade C or better.
Practical application of the concepts of data processing to IBM punched card equipment. Control panel wiring of accounting machine, collator, reproducer, interpreter, calculator. Two hours lecture and three hours lab weekly.

85-ABCD Work Experience 1-2-3-4 units
Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.
This class is designed to coordinate the student’s on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours of approved data processing employment weekly.

Expenses

1. The student is required to purchase a set of selected hand-tools that cost about $25.00.
2. The student furnishes his own laboratory coat.
3. Books and supplies cost about $100 for the two years.
4. Students are urged to carry some form of health and accident insurance. Policies are available to college students at reasonable rates.

--- Requirements for Admission to Dental Technology Program ---
1. Admission to the college.
2. Applicants must also have qualifying test scores on a chalk carving dexterity test. Arrangements for taking this test may be made through the Counseling Center.

70 Introduction to Dental Technology, Ethics and Jurisprudence  
Prerequisite: Admission to the program.
This introductory course acquaints the student with the field of dental laboratory technology, the categories of training and employment, professional relationship of the technician and dentist, and the ethics and laws governing laboratory practices. One hour lecture weekly.

71 Dental Morphology  
Prerequisite: Concurrent enrollment in Dental Tech. 70.
Dental anatomy, physiology and terminology will be covered to allow the student a thorough study of the terms peculiar to the dental profession. Students are required to carve teeth in wax to develop manipulative skill and to learn teeth anatomy. One and one-half hour lecture and one and one-half hour lab weekly.

72-A Dental Materials and Their Uses, I  
Prerequisite: Admission to the program.
Emphasis on the non-metallic materials used by the technician. Demonstrations will include the uses of gypsum products, duplicating materials, resins, waxes, ceramics and polishing agents. Two hours lecture and four hours lab weekly.

72-B Dental Materials and Their Uses, II  
Prerequisite: Dental Technology 72-A.
A study of metal and alloy materials used in dentistry; melting, casting principles of finishing and polishing with special emphasis on chrome cobalt alloys and precious metals. One hour lecture and three hours lab weekly.

73-A Complete Denture Techniques, I  
Prerequisite: Admission to the program.
Covers the pouring of diagnostic casts, and construction of custom trays, shellac base plates, occlusal bite rims, mounting of models on articulators, and the processing of dental resins. Two hours lecture and six hours lab weekly.

73-B Complete Denture Techniques, II  
Prerequisite: Dental Technology 73-A.
Covers the procedure of constructing an immediate full maxillary denture, the relining and transfer of this denture. Two hours lecture and six hours lab weekly.

73-C Complete Denture Techniques, III  
Prerequisite: Dental Technology 73-B.
The construction of a complete maxillary and mandibular denture, the utilization of cast metal bases will be emphasized. One hour lecture and three hours lab weekly.

74 Dental Anatomy and Physiology  
Prerequisite: Admission to the program.
The study of the gross anatomy of the individual teeth; their anatomy in cross section; the alignment of the teeth in the jaws; their occlusion during the various jaw relations, the bony foundations of the teeth, maxillary and mandibular landmarks and the temporomandibular articulation. Two hours lecture weekly.

75 Crown Waxing Technique  
Prerequisite: Dental Technology 71.
Deals with the application and building up of crown surfaces in wax, on prepared teeth which are mounted on an articulator so that an interpretation of all the odontocondylar relations can be processed in the development of the occlusion. One and one-half hours lecture, one and one-half hours lab weekly.

76-A Crown and Bridge Techniques, I  
Prerequisite: Dental Technology 76-A.
Covers the techniques specific to the casting of inlays and crowns and the soldering of these units and the finishing and polishing of the completed bridge. Two hour lecture and three hours lab weekly.

76-B Crown and Bridge Techniques, II  
Prerequisite: Dental Technology 76-A.
**DENTAL TECHNOLOGY**

Bridges of various designs are constructed. Advanced techniques are used which utilize porcelains, gold and acrylic pontics. Two hours lecture and six hours lab weekly.

**76-C Crown and Bridge Techniques, III**

- **Fall**
- **3 units**

Prerequisite: Dental Technology 76-B.

A continuation of Dental Technology 76-B with emphasis on porcelain-baked-on-to-gold techniques. Two hours lecture and three hours lab weekly.

**77-A Partial Denture Techniques, I**

- **Fall**
- **4 units**

Prerequisite: Sophomore standing or equivalent.

The study of surveying, design and waxing of the removable partial denture framework; the casting of and finishing of the casting. Two hours lecture and six hours lab weekly.

**77-B Partial Denture Techniques, II**

- **Spring**
- **4 units**

Prerequisite: Dental Technology 77-A.

A continuation of partial denture construction, whereby the student will repair partial dentures by the addition of new clasps and teeth. The theory of prevision partial denture construction is covered. Two hours lecture and six hours lab weekly.

**78 Elementary Ceramics**

- **Spring**
- **3 units**

Prerequisite: Dental Technology 76-B with a grade of C or better.

Deals with the physical properties and manipulation of porcelain; preparation of dies, adaptation of platinum matrices, firing, grinding and glazing. Techniques of staining and personal characterizations are presented. Two hours lecture and four hours lab weekly.

**80-ABCD Work Experience**

- **1-2-3-4 units**

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

This class is designed to coordinate the student's on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences weekly.

**81-AB Elementary Crown and Bridge**

- **2-2 units**

Prerequisite: Employment in the dental field or equivalent.

Techniques specific to the waxing of the prepared dies, the casting of inlays and crowns, the construction of various bridges. In the second semester advanced techniques utilizing porcelain, gold and acrylic pontics are studied. One and one-half hours lab weekly.

**EARLY CHILDHOOD STUDIES**

**82 Business Management of the Dental Laboratory**

- **Spring**
- **1 unit**

Prerequisite: Enrollment in Dental Technology Program.

Fundamentals of accounting: financial statements, basic record-keeping procedures, sales and cash receipts, transactions with individual dentists, end-of-period procedures, financial statement analysis and pricing, as they apply to the dental laboratory industry. One hour lecture weekly.

**83 Dental Technology Specialization**

- **Summer**
- **4 units**

Prerequisite: Holder of dental technology certificate or equivalent.

Allows the student to concentrate on one of six dental technology specialties over an eight hour day. Three hours lecture and twenty-seven hours lab weekly during 6 weeks summer session.

**EARLY CHILDHOOD STUDIES**

**1 Introduction to Early Childhood Programs**

- **3 units**

Prerequisite: ECS-7 or concurrent enrollment recommended.

A survey of the field of Early Childhood Studies with reference to the importance and responsibilities of the preschool environment. Includes directed observation of a variety of community Early Childhood programs. Observation required. Three hours lecture weekly.

**2 Principles and Practices of Early Childhood Education**

- **4 units**

Prerequisite: ECS-1.

Application of child growth and development principles to early childhood curricula; study of appropriate play and learning experiences; use of materials and equipment; techniques of planning; administration and organization of staff; interpersonal relationships; finances and advisory boards; recordkeeping; guidance techniques; discipline and group control; development and evaluation of curriculum. Four hours lecture weekly.

**4-ABCD Work Experience**

- **1-2-3-4 units**

Prerequisite: ECS-2 or concurrent enrollment.

A supervised practicum in planning and conducting early childhood curriculum and programs. Designed to coordinate paid or volunteer on-the-job training with direct experience in working with young children on campus and/or in the community. One hour lecture/discussion plus five to twenty hours employment experiences per week.
EARLY CHILDHOOD STUDIES

6 Creative Activities for Young Children 3 units

Prerequisite: None.

Introduction to creativity as it relates to young children in education. Integration of creative activity into various aspects of the early childhood curriculum, including art, music, movement, dramatics, language, play, food and media. Three hours lecture weekly.

7 Child Development 3 units

Prerequisite: None.

Pre-natal growth, the birth, and development through the years of childhood. Emphasis on physical, mental, social, and emotional development. Includes nursery school observation. Three hours lecture weekly.

12 Parent Participation and Involvement 3 units

Prerequisite: None.

Designed for parents and interested adults wishing to further their understanding of the philosophy, objectives, teaching methods and techniques of the child care center while actively participating in the functioning of the center. Two hours lecture and three hours lab weekly.

17 Adult-Child Interaction 3 units

Prerequisite: None.

Designed for parents, teachers, teacher-aides, and others interested in or participating in parent education. Broad overview of child development, prenatal through early childhood periods, communication and interaction within the family and school for young children. Three hours lecture weekly.

44 Nursery School Administration 3 units

Prerequisite: Nine units in nursery school courses.

Principles and practices of nursery school administration including program, organizational structure, budgeting, personnel policies and practices, records, statistics, reporting, and relationship with community resources, regulatory agencies and parents. Three hours lecture weekly.

ECONOMICS

4 Contemporary Economic Problems 3 units

Prerequisite: None.

A general education course emphasizing simple economic analysis applied to issues and problems facing the U.S. citizen. Problems are dissected with the elementary tools of economics as a way of evaluating alternative choices with respect to actual or hypothetical courses of action. Includes inflation, unemployment, income distribution, environmental quality, and government intervention in markets. Three hours lecture weekly.

7 Principles of Macroeconomics 3 units

Prerequisite: Qualifying test scores or Economics 4.

Economic theory and analysis as applied to the U.S. economy as a whole. Emphasizes aggregative economics dealing with the macroeconomic concepts of national income and expenditure, aggregate supply and demand, fiscal policy, monetary policy, and economic stabilization and growth. Three hours lecture weekly.

8 Principles of Microeconomics 3 units

Prerequisite: Qualifying test scores or economics 4.

Economic theory and analysis as applied to consumer and producer behavior in markets. Emphasizes the allocation of resources and the distribution of income through the price mechanism, and deals with the microeconomic concepts of equilibrium in product and factor markets, perfect and imperfect competition, government interdiction in the private sector, and international trade and finance. Three hours lecture weekly.

30 Consumer Economics 3 units

Prerequisite: None.

Applied economics oriented toward rational personal decision-making in budgeting limited income, buying, and financial planning. Economic principles and institutional structures are presented insofar as they affect consumer choices. Emphasis is placed upon acquiring relevant information and arriving at decisions which lead to explicitly formulated personal goals. Three hours lecture weekly.

40 Economic History of the United States 3 units

Prerequisite: None.

Introduces the student to the historical background and institutions of the American economy from colonial times to the present with emphasis upon the historical aspects of contemporary economic institutions and issues. Three hours lecture weekly.
EDUCATION

Introduction to Education 3 units
Prerequisite: Sophomore standing.
An introduction to the principles of education, with emphasis on the role and requirements of the teacher. Guided observations of classes in the elementary and secondary schools are included. Three hours lecture weekly.

Micro-Counseling: Paraprofessional Counseling for the Disadvantaged 3 units
Prerequisite: None. Completion of at least one semester at R.C.C. recommended.
Identifies and deals with the needs of culturally disadvantaged students through the preparation of student peer paraprofessional counselors. Three hours lecture weekly.

The Paraprofessional in the Elementary Classroom 3 units
Prerequisite: None.
Prepares students planning to seek employment as teacher aides or volunteers in elementary schools. The role of the non-certificated person in the school; school law and district policies; non-teaching tasks supporting classroom operation; tutoring techniques in the language arts, work study skills, and perceptual-motor training; operation of audiovisual equipment and other instructional material. Three hours lecture and three hours to be arranged.

ELECTRONICS

Beginning electronics students may enroll in any course for which they qualify, but the following guidelines are strongly suggested:
A. The beginning lab technician courses are Electronics 51, 52, and 54. If at all possible, all three courses should be taken concurrently; 51 and 52 must be concurrent unless prior credit for one of them was earned.
B. The beginning service technician courses are Electronics 71, 72, and 74. If at all possible, all three courses should be taken concurrently.
C. If there is any doubt about qualifications for either of the above course series, consult an electronics department instructor prior to registration.
D. Both beginning series will be offered at the same times, so if a student mistakenly enrolls in the wrong series, it will be possible to cross-transfer with the instructors' approval.

Electronics for Industrial Arts Majors 4 units
Prerequisite: None.
Designed for industrial arts majors, engineering aides, and other students who desire a general electronic background. Basic electrical theory, electronics, components and circuitry, and radio systems, both AM and FM will be covered. Three hours lecture and three hours lab weekly.

Electronics Fundamentals and Mathematics, I 5 units
Prerequisite: 1 year of high school algebra or Math 52 or equivalent.
Basic DC theory including Ohm's Law, circuit analysis, network theorems, electronics math including use of slide rule and applied algebra. Three hours lecture and six hours lab weekly.

Electronics Fundamentals and Mathematics, II 5 units
Prerequisite: Electronics 50-A.
AC theory including inductance, capacitance, RCL circuits, attenuators and filters. Electronic math including use of slide rule, trigonometry, vector analysis and logarithms. Three hours lecture and six hours lab weekly.

Electrical Fundamentals of Electronics 7 units
Prerequisite: Electronics 52, or taken concurrently.
Basic electrical theory, including Ohm's Law, network analysis, AC theory and vectors. Five hours lecture and six hours lab weekly.

Electronic Math 3 units
Prerequisite: None.
Applications of Ohm's Law, resonance and impedance formulae, vectors and other related math. Three hours lecture weekly.

Electronic Circuitry 7 units
Prerequisite: Electronics 51 and 52.
Basic theory of active devices and active networks involving vacuum tubes and solid state devices in rectifier, amplifier, oscillator and special circuits. Five hours lecture and six hours lab weekly.

Electronic Measurements 2 units
Prerequisite: Electronics 51 or 80 concurrently.
ELECTRONICS

Fundamentals of measurements and proper measuring procedures. Includes measurement of voltage, current, resistance, capacitance, inductance, impedance, power, phase, distortion, audio and radio frequencies. Careful procedures and correct use of instruments are stressed. One hour lecture and four hours lab weekly.

55 Report Writing
Prerequisite: Electronics 51 or 80.
Correct procedures for organizing and presenting data in the form of a technical paper. Includes an analysis of common hazards in grammar and spelling. Two hours lecture weekly.

56 Computer Mathematics
Prerequisite: None.
Special mathematics essential to the understanding of modern electronic computers and cybernetic systems. Binary arithmetic, and Boolean algebra are included. Three hours lecture weekly.

57 Electronics Drafting
Prerequisite: Electronics 51, or may be taken concurrently.
Basic drafting procedures, with emphasis on their usage in electronic drafting. Lettering, schematic diagrams, chassis lay-out, as well as rough lay-out, and the use of aids such as templates will be emphasized. Four hours lab weekly.

58 Semi-Conductor Fundamentals
Prerequisite: Electronics 51 or 80.
Design and analysis of linear transistor circuits using the latest circuit oriented methods which minimize the amount of mathematics required and maximize circuit performance.
Design circuits, construct them in the laboratory, and compare actual circuit performance against design specifications. A highly practical course for students who must make transistor circuits work in the laboratory, in production, or in the field. Three hours lecture and six hours lab weekly.

59 Microelectronics
Prerequisite: Electronics 51, or 71, or 80.
A basic course in microelectronics including thin film, thick film and MOS, but with the emphasis on monolithic integrat-
ed circuits. Includes methods of fabrication and equivalent circuits, and their uses in systems and subsystems. Two hours lecture weekly.

60 Introduction to Electronics
Prerequisite: None.
An introduction to basic electronic theory, devices, and simple circuits. Includes laboratory techniques and use of basic test equipment. Three hours lecture and three hours lab weekly.

62 Audio and Radio Frequency Circuits
Prerequisite: Electronics 53 and 54.
Radio receiver circuitry, with the modifications of the super heterodyne receiver found in AM and FM entertainment equipment, communications receivers, and mobile equipment. Generation of radio frequency power, and its modulation, both by amplitude and by frequency, including multiplex systems. Components and circuitry in PA and high fidelity, both monaural and stereo. Two hours lecture and six hours lab weekly.

63-AB Radiotelephone Technician Licensing, I
Prerequisite: Electronics 51 and 53 or 80 and 82.
A study of pertinent electronics communication theory specifically directed toward meeting the requirements for passing Federal Communications Commission examination elements, I, II, III for the Second Class Radiotelephone License. Six hours lecture weekly.

64-AB Radiotelephone Technician Licensing, II
Prerequisite: Electronics 63-B or a valid Second Class Radiotelephone F.C.C. License.
A study of pertinent electronics communications theory specifically directed toward meeting the requirements for passing Federal Communication Commission examination Element IV and Endorsement IX for the First Class Radiotelephone License Endorsement. Three hours lecture weekly.

65 Computer Circuitry
Prerequisite: Electronics 56.
Digital circuits will be analyzed and integrated into complete systems. Extensive use will be made of system and logic diagrams. Counters, decoders, detect networks, shift registers, adders, will be covered. Two hours lecture and four hours lab weekly.
**67 Special Semiconductor Devices**

Spring 3 units

Prerequisite: Electronics 51, 71, or 80.

Latest state of the art covering semi-conductor devices (except bi-polar transistors), MOS FET’s, silicon controlled rectifiers, zener and avalanche devices, trigger, diodes, triacs, and others. Three hours lecture weekly.

**68 Advanced Electronic Measurement**

Fall 4 units

Prerequisite: Electronics 51.

The use of more sophisticated instruments for critical measurements. Includes digital measurements, audio-measurements, radio frequency measurements and other specialized measurements. Two hours lecture and six hours lab weekly.

**71 Fundamentals of Electronics for Technicians**

Fall 7 units

Prerequisite: None.

Basic electronic theory including structure of matter, Ohm’s Law, AC theory, an introduction to vacuum tubes and solid state devices, and antennas presented with an emphasis on electronic maintenance and repair. Five hours lecture and six hours lab weekly.

**72 Math for Technicians**

Fall 3 units

Prerequisite: None.

Basic math principles and methods of calculation necessary for an understanding of elementary electronic theory. Scientific notation, basic slide rule, use of electronic formulas, and some business arithmetic will be covered. Three hours lecture weekly.

**73 Basic Television**

Spring 7 units

Prerequisite: Electronics 71, 72.

Black and white and color television. Complete analysis of TV receivers both black and white, and color. Trouble shooting the TV receiver. Five hours lecture and six hours lab weekly.

**74 Electronic Test Equipment**

Fall 2 units

Prerequisite: None.

Emphasizes the use of electronic test instruments such as the vacuum tube volt-meter, volt-ohm-milliammeter, capacitor testers, vacuum tube and transistor testers, oscilloscopes, AF and RF generators. Component identification, ratings, and use of manuals. Should be taken concurrently with Electronics 71 and 72. One hour lecture and four hours lab weekly.

**75 Servicing Semiconductor Equipment**

Spring 5 units

Prerequisite: Electronics 71, 72.

A servicing oriented course covering all important aspects of semiconductors as they are used in home entertainment equipment. Three hours lecture and six hours lab weekly.

**78 Television Circuitry**

Spring 3 units

Prerequisite: Electronics 71.

Analysis and operation of individual circuits, vacuum tube and transistor, which are used in TV receivers, high fidelity and related equipment. Three hours lecture weekly.

**79-ABCD Work Experience**

1-2-3-4 units

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

This class is designed to coordinate the student’s on-the-job training with related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences weekly.

**80 Fundamentals of Electronics**

4 units

Prerequisite: None.

Basic electrical theory, including Ohm’s Law, impedance, vectors and AC theory. Three hours lecture and three hours lab weekly.

**81 Materials and Techniques of Electronics**

Spring 1 unit

Prerequisite: None.

An introduction to construction and service practices. Includes wiring, soldering, chassis and panel layout, marking fabrication, circuit board techniques, and military requirements. Three hours of lab weekly.

**82 Electronic Circuits**

4 units

Prerequisite: Electronics 80.

Active devices and circuits including power supplies, amplifiers, oscillators, and wave shapers. Three hours lecture and three hours lab weekly.
### ELECTRONICS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Quarter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>83</td>
<td>Semi-Conductor Theory and Practice</td>
<td>Spring</td>
<td>3</td>
</tr>
<tr>
<td>84</td>
<td>Component and Environmental Measurements</td>
<td>Summer</td>
<td>1</td>
</tr>
<tr>
<td>90</td>
<td>Pulse and Digital Circuits</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>93</td>
<td>Basic Television Service</td>
<td>Fall</td>
<td>4</td>
</tr>
<tr>
<td>94</td>
<td>Advanced Television Service</td>
<td>Spring</td>
<td>4</td>
</tr>
</tbody>
</table>

**Prerequisites:**
- Electronics 80 for most courses.
- Additional courses as specified.

### ENGINEERING (Also see Surveying Technology)

Instruction in the engineering major is based upon high school chemistry or physics and four years of high school mathematics, including intermediate and advanced algebra and trigonometry.

#### 1-A Plane Surveying, I
- **Quarter:** Fall
- **Units:** 3

**Prerequisite:** Mathematics 36.

Fundamental surveying methods and procedures as applied to land measurement, building trades and route location. Traversing, leveling and angle measurements are studied, as are the analysis and adjustments of the measurements. Two hours lecture weekly. A three-hour field practice is held each Saturday.

#### 1-B Plane Surveying, II
- **Quarter:** Spring
- **Units:** 3

**Prerequisite:** Engineering I-A.

Emphasis upon adjustment techniques and greater depth in error theory. Traverses and triangulation surveys are studied with elements of topographic surveying. Special problems similar to those encountered in actual practice. Two hours lecture weekly. A three-hour field practice is held each Saturday.

#### 18 Legal Aspects of Surveying
- **Units:** 3

**Prerequisite:** Engineering I-AB or five years surveying experience.

A study of legal aspects related to public land survey, municipal property survey, and descriptions and laws affecting a surveyor. Includes property line surveys, methods of setting missing property corners. Three hours lecture weekly.

#### 22 Engineering Drawing
- **Units:** 2

**Prerequisite:** Engineering 50 or one year of high school drafting.

Drafting fundamentals briefly reviewed, geometric construction, orthographic projections, free-hand sketching, sectioning, auxiliary views, shop processes, dimensions and tolerances, fasteners, working and pictorial drawings, and as time permits, piping and electrical drawings. Six hours lab weekly.

#### 23 Descriptive Geometry
- **Units:** 2

**Prerequisite:** Engineering 22 and Mathematics 36.

Graphical (drafting) techniques applied to the solutions of vector problems, the development of surfaces as in sheet-metal work, the determination of lines of intersection between surfaces, and the solution of miscellaneous engineer-
### ENGINEERING

**Engr. 24** Advanced Engineering Drawing  
2 units  
Prerequisite: Engineering 23.  
Drawing to include functional scales, empirical equations, nomographs, graphical calculus, layout drawings, problems in kinematics, and simple design problems. Six hours lab weekly.

**Engr. 35** Statics (Engineering Mathematics)  
3 units  
Prerequisite: Physics 4-A.  
A study of force and equilibrium problems, free body diagram techniques, friction problems, second moments and moments of inertia, and their applications to engineering. Algebraic, vector and classical, and graphical methods of calculation. Three hours lecture weekly.

**Engr. 50** Drafting  
2 units  
Prerequisite: None.  
Fundamentals of mechanical drawing including lettering, instruments and their uses, geometric construction, types of projection, freehand drawing, sectioning, dimensioning, auxiliary views, and pictorial drawing. Recommended for beginners and students with up to one year of drafting in high school. Six hours lab weekly.

**Engr. 51** Blueprint Reading  
1 unit  
Prerequisite: None.  
A beginning course in the study of blueprints and their interpretation, types of projection, symbols and abbreviations. Three hours lab weekly.

**Engr. 85** Basic Metallurgy  
3 units  
Prerequisite: None.  
A background of basic metallurgical information. Subjects covered include selection and characteristics of metals and alloys, production of pure metals, principles of alloying and heat treating, production and fabrication processes, testing and inspection methods and techniques. Three hours lecture weekly.

### ENGLISH

**Engl. 1-A** English Composition  
3 units  
Prerequisite: Qualifying test scores.  
Emphasis on exposition. The course is designed to develop competence in rhetorical skills. Extensive reading assignments and writing in exposition, argument, and research are made. Three hours lecture weekly.  
Credit for this course can also be earned by achieving a score of 3 or better on the Advanced Placement Test.

**Engl. 1-B** English Literature and Composition  
3 units  
Prerequisite: English 1-A.  
Designed to develop skill in reading, interpreting, analyzing, and criticizing imaginative literature: the short story, novel, drama, and poetry. Composition totaling a minimum of 8000 words serves to correlate writing with reading. Three hours lecture weekly.  
Credit for this course can also be earned by achieving a score of 3 or better on the Advanced Placement Test.

**Engl. 2** Developmental Reading  
2 units  
Prerequisite: Qualifying test scores.  
Practice in reading for increased speed and comprehension. This course is intended primarily for students planning to transfer. Reading with pacers, reading of films, reading problems and exercises. One hour lecture and three hours lab; four hours weekly for nine weeks.

**Engl. 6** English Literature, I, Heroic Age, Renaissance, Neo-Classic Period  
3 units  
Prerequisite: English 1-B. Required for English majors.  
Survey of English literature from its beginning to 1800, covering the important historical periods and movements, personalities, and individual literary work. All types of literature including examples of poetry and drama and fictional and non-fictional prose. Three hours lecture weekly.

**Engl. 7** English Literature, II, Romantic Period, Victorian Period, Modern Period  
3 units  
Prerequisite: English 1-B. Required for English majors.  
Survey of English literature from 1800 to the present, covering important historical periods and movements, personalities, and individual literary work. Attention is given to all types of literature including examples of poetry and drama and fictional and non-fictional prose. Three hours lecture weekly.
ENGLISH

9 Introduction to Shakespeare 3 units
Prerequisite: English 1-B.
An intensive study of selected Shakespearean comedies, tragedies, and histories. Three hours lecture weekly.

11-A Creative Writing, I 3 units
Prerequisite: None.
Studies in fundamental principles of writing fiction encompassing character development, plot structure, viewpoint manipulation, and scene. Stories by professional writers as well as those of students will be analyzed. Three hours lecture weekly.

11-B Creative Writing, II 3 units
Prerequisite: English 11-A.
Techniques of writing fiction with special emphasis on applying these techniques to the writing of a novel. A study of current marketing problems of both slick and pulp material. Three hours lecture weekly.

13 Comic Satire 3 units
Prerequisite: Qualification for English 1-A.
Human and critical wit are blended to examine man and his institutions. Comic elements, forms, movements, and situations focus on the picaresque rogue and the anti-hero found in representative novels from the beginning of this literary form to the present. Develops an increased perception of the impact and significance of comic realism. Three hours lecture weekly.

14 American Literature, I Fall 3 units
Prerequisite: Qualifying test scores.
A study of major American writers from the beginning to 1860. Three hours lecture weekly.

15 American Literature, II Spring 3 units
Prerequisite: Qualifying test scores.
American literature from 1860 to the present. Three hours lecture weekly.

16 Black American Literature 3 units
Prerequisite: None.
Black American literature in all genres from the early oral traditions to major contemporary authors, presenting the cultural and intellectual trends and promoting awareness of the important contributions of black authors. Three hours lecture weekly.

18 Native American Literature 3 units
Prerequisite: None.
A survey of the Native American as he sees himself and as others see him in fact and in fancy through literature. Emphasis will be upon becoming familiar with a broad part of literature and becoming more aware of the cultural and social patterns as these relate to contemporary changes. Three hours lecture weekly.

20 Mexican Literature in Translation Fall 3 units
Prerequisite: None.
A survey of Mexican literature in translation covering the novel, short-story, essay, poem, and song from the pre-Columbian time to the present with emphasis upon the period from 1910 to the present, including the Chicano experience in literature since 1960. Three hours lecture weekly.

25 Crime Fiction 3 units
Prerequisite: None.
The history and development of the various types of crime novels. Students will become aware of the range and variety of detective fiction and of new authors in criminal fiction. Three hours lecture weekly.

26 The Literature of Mysticism, Meditation, and Madness 3 units
Prerequisite: None.
Mysticism, meditation, and madness as seen in a survey of modern and historical literature. These three extreme states of being will be studied as methods of emotional and rational self-expression. Besides the literature, supplementary readings in psychology, religion, and philosophy will be used as additional sources. Some authors covered are Blake, Hopkins, Kafka, Hesse, Nin, and Castaneda. Three hours weekly.

27 The Art of the Cinema Spring 2 units
Prerequisite: None.
The history and the esthetics of motion pictures. Films are compared to other forms of narrative and pictorial art. Examples of films significant in the history and the art of the
ENGLISH

film including the documentary are shown, from the beginnings to the present day. Study is directed toward greater understanding and enjoyment of motion pictures as an art form. One hour lecture and two hours lab weekly.

30 Children's Literature 3 units
Prerequisite: None.
Survey of children's literature from early times, with emphasis on contemporary material. Oral presentation is stressed, but some writing is required. Three hours lecture weekly.

34 Folk/Rock Poetry 3 units
Prerequisite: None.
The traditional and the most recent folk/rock lyrics in relation to poetic form, theme and music and in conjunction with traditional and modern poetry. Three hours lecture weekly.

35 Women in Literature 3 units
Prerequisite: None.
A study of literature both by and about women organized around female stereotypes. The readings in fiction, poetry, and criticism will explore literary images of woman as wife, mother, sex object, seductress, old maid, and free woman. Three hours lecture weekly.

37-ABCD Film Appreciation 1-1-1-1 unit
Prerequisite: None.
A study of films, foreign and American, selected for merit. Different films are studied each term. Readings in film criticism. Lectures on and discussions of directors, production details, and the elements of film criticism. The course is an adjunct to the Film Series program. Two hours of screening on alternate weeks (approx.) and one hour of lecture.

40 Masterpieces of World Literature, I Fall 3 units
Prerequisite: Qualification for English 1-A.
A study of great works of world literature including those of the Orient, but exclusive of English and American works. The highest achievements in literature of different cultures from the beginning to the early Renaissance are studied for their cultural milieu, artistic form, and contribution to modern thought. Three hours lecture weekly.

42 Far and Near: The Literature of the East Spring 3 units
Prerequisite: Qualification for English 1-A.
A survey of Asian literature representing the highest achievement of the cultures of Arabia, Persia, India, China, and Japan. Emphasis is put on historical milieu, artistic forms, and contribution to modern thought. Three hours lecture weekly.

41 Masterpieces of World Literature, II Spring 3 units
Prerequisite: Qualification for English 1-A.
From the late Renaissance to the present, with major emphasis on the development of modern forms and movements culminating in the 20th century. Three hours lecture weekly.

42 Far and Near: The Literature of the East Spring 3 units
Prerequisite: Qualification for English 1-A.
A survey of Asian literature representing the highest achievement of the cultures of Arabia, Persia, India, China, and Japan. Emphasis is put on historical milieu, artistic forms, and contribution to modern thought. Three hours lecture weekly.

44 Discovering Modern Poetry 3 units
Prerequisite: None.
A survey of modern poetry using techniques in critical analysis, class discussion and poetic composition. Three hours lecture weekly.

45 Discovering Modern Drama Fall 3 units
Prerequisite: None.
Current and contemporary drama in modern society; the role of the dramatist as interpreter and voice of the social dilemmas and crises of the contemporary world. Three hours lecture weekly.

48 Modern Literature—Short Story and Novel Spring 3 units
Prerequisite: None.
Representative literature of the 20th century with emphasis on the short story and novel. How major writers have treated contemporary man in crisis with himself and society. Three hours lecture weekly.

49 Literary Criticism and Analysis Spring 3 units
Prerequisite: English 1-B.
A study of the several types of literary criticism and an examination of the different approaches used in analyzing literary works. Special emphasis will be placed on the literary work and the author, the literary work and the reader, and the literary work in relation to its age. Three hours lecture weekly.
ENGLISH

50-A Basic English Composition 3 units
Prerequisite: None. Not open to students enrolled in English 1-A.
Principles of effective written expression including the mechanics of English, offering practice and development in exposition and argumentation. Three hours lecture weekly.
A special section of this course will be offered for deaf students.

50-B English Literature and Composition 3 units
Prerequisite: English 50-A.
A general study of literature with emphasis on the reading of the short story, novel, drama and poetry. Assignments in writing correlate with reading and the study of composition techniques. Three hours lecture weekly.

51-I Individualized Reading 2 units
Prerequisite: None.
An individualized reading course tailored to fit the needs of each student. Lessons will help sharpen reading skills in the areas of perception, comprehension skills, work attack, study skills, interpretative and appreciative skills. One hour lecture and two hours lab weekly.

51-R Reading Improvement 2 units
Prerequisite: None.
Primarily for fair readers who need to increase their vocabulary and speed of comprehension in reading. Recommended for anyone who has not received a satisfactory score on the reading portion of the English qualifying test. Three hours weekly.

52-A Literature and Composition for the Deaf 3 units
Prerequisite: Open only to deaf students.
A general study of literature with emphasis on the reading of the short story, drama and poetry. Principles of effective written expression, including the mechanics of English, are presented in great detail. Five lecture hours per week.

52-B Literature and Composition for the Deaf 3 units
Prerequisite: Open only to deaf students. English 52-A.
A general study of literature with emphasis on the reading of the short story, drama and poetry. Principles of effective written expression, including the mechanics of English, are presented in great detail. Five lecture hours per week.

52-C Literature and Composition for the Deaf Fall 3 units
Prerequisite: English 50-B.
Continuation of 50-B at an advanced level. Five hours lecture weekly.

52-D Literature and Composition for the Deaf Spring 3 units
Prerequisite: English 52-C.
Continuation of 52-C at a more advanced level. Five hours lecture weekly.

53-A Literature and Composition for the Deaf Adult, I Fall 3 units
Prerequisite: Consent of the instructor.
A general study of literature with emphasis on the reading of the novel and short story. Principles of effective written expression will be covered in book reports and essays covering books read. Three hours lecture weekly.

53-B Literature and Composition for the Deaf Adult, II Spring 3 units
Prerequisite: English 53-A or permission of instructor.
Covers a general study of literature with emphasis on the reading of the novel and short story. Principles of effective written expression will be covered in book reports and essays covering books read. Three hours lecture weekly.

55 Developmental Literature and Composition for the Deaf
Prerequisite: None.
A course of developmental work in reading and composition with an emphasis on use of skills in practiced situations related to school, employment, and home. Two hours daily, five days a week, six week summer session.

56 English as a Second Language 3 units
Prerequisite: None. Intended for students whose native language is not English.
Understanding, speaking, reading and writing of English for foreign students and others of different language backgrounds. Intensive work in grammar, composition, conversation, idiomatic usage, and vocabulary building. Three hours lecture and one hour lab weekly.

ESCROW

90-A Escrow Procedures, I 3 units
Prerequisite: None.
Methods and techniques of escrow procedure for various types of business transactions with emphasis on real estate, including the legal and ethical responsibilities of persons engaged in escrow work. Three hours lecture weekly.
ESCROW

90-B Escrow Procedures, II 3 units
Prerequisite: Escrow 90-A or one year experience as an escrow officer.
A continuation of Escrow 90-A. Emphasizes advanced escrow problems and legal procedures. This covers the more unusual and difficult types of escrows and evaluating the possible solutions. Three hours lecture weekly.

90-C Escrow Procedures, III Fall 3 units
Prerequisite: Escrow 90-B or two years experience as an escrow officer.
A further study of the more unusual and difficult types of escrows, with particular attention to those escrows wherein conflict or dispute arises. Some cases include: compliance with conditions, agency relationship, wrongful delivery, conditional deposits, liability, assignments, delivery and escrow instructions. Three hours lecture weekly.

FIRE SCIENCE

51 Introduction to Fire Science 3 units
Prerequisite: None.
Philosophy and history of fire protection; history of loss of life and property by fire; review of municipal fire defenses; study of the organization and function of Federal, State, County, and private fire protection career opportunities. Three hours lecture weekly.

52 Fundamentals of Fire Prevention 3 units
Prerequisite: None.
Organization and functions of fire prevention; inspection; surveying and mapping procedures; recognition of fire hazards; engineering a solution of the hazard; enforcement of the solution; public relations as affected by fire prevention. Three hours lecture weekly.

53 Fire Tactics and Strategy 3 units
Prerequisite: None.
Review of fire chemistry, equipment, and manpower; basic fire fighting tactics and strategy; methods of attack; preplanning fire problems. Three hours lecture weekly.

54-A Hazardous Materials, I 3 units
Prerequisite: Fire Science 80 or equivalent.
Review of basic chemistry; storage, handling, laws, standards, and fire fighting practices pertaining to hazardous solids, liquids and gases. Three hours lecture weekly.

54-B Hazardous Materials, II 3 units
Prerequisite: Fire Science 54-A.
Further review of basic chemistry and study of the problems involved in and laws and standards governing the handling, manufacture, storage, transportation, and use of hazardous materials likely to be encountered in fire fighting practices. Three hours lecture weekly.

55 Fire Protection Equipment and Systems 3 units
Prerequisite: None.
Portable fire extinguishing equipment; sprinkler systems; protection systems for special hazards; fire alarm and detection systems. Three hours lecture weekly.

56 Related Codes and Ordinances 3 units
Prerequisite: None.
Familiarization with national, state, and local laws and ordinances which influence the field of fire prevention. Three hours lecture weekly.

57 Fire Hydraulics 3 units
Prerequisite: Fire Science 80 and Mathematics 51, or equivalent.
Review of basic mathematics; hydraulic laws and formulas as applied to the fire service; application of formulas and calculation to hydraulic problems; water supply problem; underwriter's requirements for pumps. Three hours lecture weekly.

58 Building Construction for Fire Protection 2 units
Prerequisite: None.
Fundamental building construction and design; fire protection features; special considerations. Two hours lecture weekly.

59 Fire Company Organization and Management 3 units
Prerequisite: Fire Science 80, 53 and 56. Recommend two years employment in Fire Department or equivalent.
Review of fire department organization; fire company organization, the company officer, personnel administration, communications, fire equipment, maintenance, training, fire prevention, fire fighting, company fire fighting capability, and records and reports. Three hours lecture weekly.
**FIRE SCIENCE**

60 Rescue Practices 3 units

Prerequisite: None.

Lifesaving practices pertaining to the fire company; training for resuscitation squads; rescue equipment; the fire department’s role in Civil Defense and other disaster acts; chemicals and diseases that affect breathing; California law on first aid; breathing apparatus. Three hours lecture weekly.

61 Fire Apparatus and Equipment 3 units

Prerequisite: Fire Science 80. Recommend employment in the Fire Service or related field, or equivalent.

Driving laws, driving technique, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment apparatus maintenance. Three hours lecture weekly.

62 Fire Investigation 3 units

Prerequisite: None.

Procedures for inspecting fire scenes. Court procedures — criminal and civil. Obtaining and processing of evidence. Investigation of fire causes. Three hours lecture weekly.

63 Wildland Fire Control 3 units

Prerequisite: Fire Science 80 and 83. Recommend employment in a fire control organization or equivalent.

Provides the employed fireman or fire science major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques. Three hours lecture weekly.

80 Fire Science — Basic Training 6 units

Prerequisite: None.

An overall view of fire protection to introduce the student to fire suppression, to provide technical background on the characteristics of fire and extinguishment principles, to introduce the student to fire prevention, to teach fundamental fire fighting and the proper care and use of tools and equipment. Twenty hours lecture, twenty hours lab weekly.

**FRENCH**

1 French, I 4 units

Prerequisite: None.

Study of French, including grammar, pronunciation, conversation, composition, and reading of basic French. Four hours lecture weekly. An additional hour of lab is required weekly.

2 French, II 4 units

Prerequisite: French 1, or 2 years of high school French with at least a B average.

Continued study of French grammar, pronunciation and composition, with emphasis on conversation. Continued reading of simple literary French. Four hours lecture weekly. An additional hour of lab is required weekly.

3 French, III 4 units

Prerequisite: French 2, or 3 years of high school French with at least a B average.

Reading of fairly advanced French literature, oral and written composition, and further study of correct grammatical and idiomatic usage of French. Four hours lecture weekly. An additional hour of lab is required weekly.

4 French, IV 4 units

Prerequisite: French 3, or 4 years of high school French with at least a B average.

Oral and written composition, and a survey of French literature from the Middle Ages to the present. Four hours lecture weekly. An additional hour of lab is required weekly.

5 Advanced French Composition and Conversation 3 units

Prerequisite: French 4 or equivalent.

Continued review of grammar, composition and conversational practice. Individual projects.

Designed to meet the requirements of two groups of students: those desiring further preparation for courses in the university and those desiring greater proficiency in the practical use of the language. Four hours lecture weekly.

25 Study Abroad — French 8 units

Prerequisite: None.

An accelerated study abroad program covering a combination of theory and field work with French as the target language. Observation of life style and customs of French people through classroom and social experience. Three hours a day five days a week for six weeks plus 82 hours of independent research and/or laboratory experience.
### FRENCH

**50-AB Conversational French** 4-4 units

**Prerequisite:** None.

A beginning French conversation course emphasizing pronunciation, speaking, comprehension, and reading at an elementary level. Conversation about the culture and customs of countries where French is spoken. Four hours lecture weekly. An additional one hour of lab is required weekly.

### GEOGRAPHY

1 **Introductory Physical Geography** 3 units

**Prerequisite:** None.

Major components of the physical environment including weather, climate, vegetation, soils, landforms, and hydrography. Three hours lecture weekly.

2 **Introductory Cultural Geography** 3 units

**Prerequisite:** None.

Basic cultural elements, man-environment relationships, population distribution, settlement patterns, utilization of natural resources, economies, political units and their correlation with physical elements. Three hours lecture weekly.

### GEOLOGY

1 **A Physical Geology** 4 units

**Prerequisite:** None.

Structure and composition of the earth, and the processes that shape its surface. Includes laboratory study of minerals, rocks, and topographic maps. Field trips to local areas of interest. One all-day field trip required. Three hours lecture and three hours lab weekly.

1-B **Historical Geology** 4 units

**Prerequisite:** None.

Geologic history of the earth and the fossil record, emphasizing principles and methods of interpretation. Special topics discussed are: continental drift, the San Andreas fault, evolution, extinction, and mountain building. Laboratory includes study of fossils, geologic maps, and methods of interpreting ancient environments. Field trips to local areas of geologic interest. Three hours lecture and three hours lab weekly.

### GERMAN

1 **German, I** 4 units

**Prerequisite:** None.

Study of German grammar, including pronunciation, conversation, composition, and reading of simple literary German. Four hours lecture weekly. An additional hour of lab is required weekly.

2 **German, II** 4 units

**Prerequisite:** German I, or two years of high school German with at least a B average.

Further study of German grammar, including pronunciation, conversation, composition and reading of more sophisticated literary German. Four hours lecture weekly. An additional hour of lab is required weekly.
GERMAN

3 German, III 4 units

Prerequisite: German 2, or three years of high school German with at least a B average.
Further study of correct grammatical and idiomatic usage of German; reading of fairly difficult German literature.
Four hours lecture weekly. An additional hour of lab work is required weekly.

4 German, IV Spring 4 units

Prerequisite: German 3, or four years of high school German with at least a B average.
Continued reading of fairly difficult German literature, with emphasis on short works by 19th and 20th century authors.
Reports on collateral reading. Four hours lecture weekly.

GERONTOLOGY

1 Introduction to Gerontology 3 units

Prerequisite: None.
The biological, psychological, and sociological aspects of aging and its product, the aged. For several different populations: the aging themselves; professionals, and practitioners who work with the aging; and the community at large. Will increase community awareness of aging while answering in-service and other training needs. Correlated with volunteer service experience where there are collective populations of elderly. Three hours lecture weekly.

2 Providing Quality Service for the Aging 3 units

Prerequisite: None.
An exploration of the visibility, developmental changes and specific needs of older people. The importance of advocacy and planning will be stressed. Techniques and strategies will be presented to enable the student to become a more effective provider of services. Methodology for implementing a plan of action will also be included. Three hours lecture weekly.

3 Sociology of Aging 3 units

Prerequisite: None.
An examination of the interaction of group processes in the family and community which influence society's attitudes toward the aging process. Study of roles, rules and relationships over the life-span with emphasis on the losses associated with aging. An examination of cultural, environmental and institutional changes, continuities and diversities in society, as they relate to an increasing population of older people. Three hours lecture.

GRAPHIC ARTS

4 Psychology of Aging 3 units

Prerequisite: None.
A developmental approach to the study of aging. An examination of behavior patterns in aging; changes in sensation, perception, and cognition processes; and the biological and environmental influences on behavior in older adults. Three hours lecture.

5 Biology of Aging 3 units

Prerequisite: None.
Defines aging in terms of declines and losses of the human individual as regarded as a process or changes taking place from middle age, later maturity, and old age; often characterized by the term "senescence". Presents the social implications of structural and functional changes resulting from the aging process. Current theories on aging will be introduced. Three hours lecture.

6 Activity Leader Course 2 units

Prerequisite: None.
For certification as an activity leader in skilled nursing and other health care facilities. The course will cover the "basics" of working with patients and residents. The areas of psychosocial, physical, mental, spiritual, and creative activities will be stressed. Two hours lecture.

GRAPHIC ARTS

1 Introduction to Graphic Arts Fall 4 units

Prerequisite: None.
An introductory course for industrial arts majors covering the basic printing processes: letterpress, offset lithography, gravure, silk screen and photography as applied to graphic reproduction; composition (both hot and cold), typographic design, lithographic photography, operation of presses and bindery equipment. Two hours lecture and six hours lab weekly.

3-A Screen Process Printing 2 units

Prerequisite: None.
Screen process reproduction with applications to industry and communications. Includes paper, tusche, and glue, knife-cut, and photo-sensitive stencils. Printing mediums,
surfaces, and industrial applications such as posters, textiles, and packaging. Instruction covers selection of materials, camera and darkroom operations, preparation of frames for production, planning and design, production and completion of visual materials. One hour lecture, three hours laboratory weekly.

3-B Advanced Screen Process Printing 2 units
Prerequisite: Graphic Arts 3-A, or acceptable trade experience.
Advanced instruction in creative planning, design, and production of printed materials by the screen process. Studies include the use of halftones, posterization, split-image, pin register, multi-color work on glass, metal, paper, textiles, and other surfaces. Photofabrication, decals, and commercial packaging applications are stressed. One hour lecture and three hours laboratory weekly.

30 Graphics 2 units
Prerequisite: None.
An introduction to the printing industry for non-printing major. Designed to develop an understanding and appreciation of printing as related to artists, writers, photographers, and other related careers. One and one-half hours lecture and one and one-half hours laboratory weekly.

55 Printing Cost Estimating, Production Management and Sales 3 units
Prerequisite: Graphic Arts 1.
Formulas used in estimating printing costs and processes of production management and printing sales. Three hours lecture weekly.

60-ABC Graphic Design, Paste-up and Photocomposition 5-5-5 units
Prerequisite: Graphic Arts 1.
Skills, knowledges and attitudes for a career in printing composition (cold type), typographic design, printer’s measurements, use of photocomposition keyboard and computer unit, display typography and copy preparation. Lectures, laboratory experiences and field trips provide an understanding of practices employed in the printing industry. The B and C sections of this course offer continued study and in-depth development of advanced photocomposition techniques. Three hours lecture and six hours lab weekly.

65-A Letterpress/Composition/Presswork 4 units
Prerequisite: Graphic Arts 1.
Skills, knowledge and attitudes for a career in letterpress printing. Covers hot metal composition, typographic layout, printer’s measurements, operation of modern letterpress machines and related bindery equipment. Two hours lecture and six hours lab weekly.

65-B Advanced Letterpress Composition/Presswork 4 units
Prerequisite: Graphic Arts 65-A.
Advanced study of modern letterpress composition/presswork techniques, with emphasis on actual machine operation. Students will participate in the college publication production program. New processes being adopted by the industry will be studied. Two hours lecture and six hours lab weekly.

80 Beginning Offset Preparation 8 units
Prerequisite: Graphic Arts 1 or high school or trade experience.
Instruction in cold and hot type composition, copy preparation, paste-up, camera, darkroom techniques and procedures, stripping, and platemaking. Four hours lecture and twelve hours lab weekly.

81-A Offset Camera, Stripping and Plate Processing, I 8 units
Prerequisite: Graphic Arts 80, or trade experience.
Skills, knowledge and attitudes for a career in graphic arts. Instruction covers the copy preparation and paste-up, camera, darkroom techniques and procedures, stripping and platemaking. Four hours lecture and twelve hours lab weekly.

81-B Offset Camera, Stripping and Plate Processing, II 8 units
Prerequisite: Graphic Arts 81-A or acceptable trade experience.
Advanced instruction in layout, design, camera, stripping, plate processing and production of printed materials by offset lithography. Studies of commercial printing plant operations include cost estimating, production control, labor relations, field trip observations, and analysis. Four hours lecture and twelve hours lab weekly.
GRAPHC ARTS

85 Beginning Offset Presswork 8 units
Prerequisite: Graphic Arts 1 or high school or trade experience.
Instruction in the offset duplicators and offset presses. Basic introduction to copy preparation, camera, stripping and platemaking. Four hours lecture and twelve hours lab weekly.

86-A Offset Presswork and Bindery, I 8 units
Prerequisite: Graphic Arts 85 or acceptable trade experience.
Offset duplicator presses and bindery equipment. An introduction to copy preparation, camera, darkroom techniques and procedures, stripping, and platemaking. Four hours lecture and twelve hours lab weekly.

86-B Offset Presswork and Bindery, II Spring 8 units
Prerequisite: Graphic Arts 86-A or trade experience.
A review on the offset duplicator presses, large offset presses and bindery equipment. Job estimating, trade methods and practices are also studied. Four hours lecture and twelve hours lab weekly.

90-ABCD Work Experience 1-2-3-4 units
Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.
This class is designed to coordinate the student's on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences weekly.

--- Extended Day Program ---

2-AB Introduction to Graphic Arts 2-2 units
Same as Graphic Arts 1 but designed for Extended Day. One hour lecture and three hours lab weekly.

72-AB Graphic Design, Composition & Copy Preparation 2-2 units
Prerequisite: Introduction to Graphic Arts or acceptable high school or trade experience.
Skills, knowledges and attitudes for a career in graphic arts. The basic printing processes, composition (hot and cold type), typographic design, printer's measurements, use of composing room equipment such as phototype machines, cold type setting machines, Ludlow, and Linotype machines. Emphasizes practices actually employed in the graphic arts industry. One hour lecture and three hours lab weekly.

82-AB Beginning Offset Preparation 2-2 units
Prerequisite: Introduction to Graphic Arts or acceptable high school or trade experience.
Designed for Extended Day. Will not cover as much material as Graphic Arts 80.
Instruction in cold and hot type composition, copy preparation and paste-up, camera, darkroom techniques and procedures, stripping, and platemaking. One hour lecture and three hours lab weekly.

83-AB Offset Camera, Stripping and Plate Processing, I 2-2 units
Prerequisite: Graphic Arts 82-AB or acceptable trade experience.
Designed for Extended Day. Will not cover as much material as Graphic Arts 81-A.
Emphasis is on developing skills, knowledge and attitudes for a career in graphic arts. Instruction covers the copy preparation and paste-up, camera, darkroom techniques and procedures, stripping and platemaking. One hour lecture and three hours lab weekly.

84-AB Offset Camera, Stripping and Plate Processing, II 2-2 units
Prerequisite: Graphic Arts 83-AB or acceptable trade experience.
Designed for Extended Day. Will not cover as much material as Graphic Arts 81-B.
Advanced instruction layout, design, camera, stripping, plate processing and production of printed materials by offset lithography. Studies of commercial printing plant operations include cost estimating, production control, labor relations, field trip observations, and analysis. One hour lecture and three hours lab weekly.

87-AB Beginning Offset Presswork 2-2 units
Prerequisite: Introduction to Graphic Arts or acceptable high school or trade experience.
Designed for Extended Day. Will not cover as much material as Graphic Arts 85.
Instruction in the offset duplicators and offset presses. Basic introduction to copy preparation, camera, stripping and platemaking. One hour lecture and three hours lab weekly.
### Graphic Arts

**88-AB  Offset Presswork and Bindery, I**  
2-2 units

- Prerequisite: Graphic Arts 87-AB or acceptable trade experience.
- Designed for Extended Day. Will not cover as much material as Graphic Arts 86-A.
- Offset duplicator presses and bindery equipment. An introduction to copy preparation, camera, darkroom techniques and procedures, stripping, and platemaking. One hour lecture and three hours lab weekly.

**89-AB  Offset Presswork and Bindery, II**  
2-2 units

- Prerequisite: Graphic Arts 87-AB, 88-AB, or acceptable trade experience.
- Designed for Extended Day. Will not cover as much material as Graphic Arts 86-B.
- A review on the offset duplicator presses, large offset presses and bindery equipment. Job estimating, trade methods and practices are also studied. One hour lecture and three hours lab weekly.

### Health Science

**1  Health Science**  
2 units

- Prerequisite: None. Not open to students enrolled in Physical Education 44.
- A basic study of the anatomy and physiology of the body, emphasizing modern concepts of prevention, treatment, and cure of degenerative and communicable diseases. This course satisfies the California requirement in drug, tobacco education for teacher certification. Two hours lecture weekly.

**2  Health Science for the Deaf**  
2 units

- Prerequisite: open to deaf students only.
- A basic study of the anatomy and physiology of the body, emphasizing modern concepts of prevention, treatment, and cure of degenerative and communicable diseases. Three hours lecture weekly.

### History

**5  A History of Western Civilization**  
3 units

- Prerequisite: Qualifying reading test scores.
- A survey of the evolution of modern western ideas and institutions from the age of the Scientific Revolution, through the Democratic and Industrial Revolutions and the World Wars to the present. Three hours lecture and discussion weekly.

**6  Political and Social History of the United States**  
3 units

- Prerequisite: Qualifying reading test scores.
- Political, social and economic development of the United States from colonial times through the Reconstruction; and their influence on American thought and institutions; including the principles of state and local government. Three hours lecture and discussion weekly.

**7  Political and Social History of the United States**  
3 units

- Prerequisite: Qualifying reading test scores.
- The period 1877 to the present. Three hours lecture and discussion weekly.

**8  History of the Americas**  
3 units

- Prerequisite: Qualifying reading test scores recommended.
- A history of the Western Hemisphere including a study of the pre-Columbian Indian cultures, European exploration and colonization, life in the colonial Americas, and the achievement of independence by the United States and Latin America. Latin America, Canada, and the United States are studied as an integrated whole. Included is a consideration of the Constitution of the United States. Three hours lecture weekly.

**9  History of the Americas**  
3 units

- Prerequisite: Qualifying reading test scores recommended.
- The American nations from the Latin American wars for independence to the present, with emphasis on Latin American development, inter-American relations, and the foreign policy of the United States and its relation to Latin America. The constitutional history and government of California are also examined. Three hours lecture weekly.

**14  Black History: African**  
3 units

- Prerequisite: Qualifying reading test scores recommended.
- A study of the complex continent from which Black Americans came with special emphasis on the historical, political
### HISTORY

- **15 Black History: American** (3 units)
  - Prerequisite: Qualifying reading test scores recommended.
  - A study of the history of the Black people in the United States with emphasis upon 20th century developments and contemporary issues. Three hours lecture weekly.

- **19 Modern Russia: An Introduction** (3 units)
  - Prerequisite: Qualifying reading test scores recommended.
  - The basic social and political development of Russia since 1801, with emphasis on the origins of the Bolshevik Revolution and the continuity of Russian civilization. Three hours lecture and discussion weekly.

- **21 Traditional Asia: Introduction** (3 units)
  - Prerequisite: None. Qualifying reading test scores recommended.
  - The development of traditional East and South Asian civilization from the earliest times through the 18th century. Some time is also devoted to Southeast Asian states and cultures. Three hours lecture weekly.

- **22 Modern Asia: China, India, and Japan** (3 units)
  - Prerequisite: Qualifying reading test scores recommended.
  - Changes in traditional Chinese, Japanese, and Indian civilizations in the 19th century and the emergence of China, India, and Japan as world powers in the 20th century. Three hours lecture and discussion weekly.

- **25 History of Mexico** (3 units)
  - Prerequisite: Qualifying reading test scores recommended.
  - Mexico's social, political, economic, and cultural evolution with a consideration of its place in world affairs. This introductory survey will stress the mosaic cultural influences from the pre-Columbian period to the present with an emphasis on the native cultures, wars of Independence, the Mexican Revolution, and Mexico in the twentieth century. Three hours lecture weekly.

- **26 History of California** (3 units)
  - Prerequisite: None.
  - A history of California from the earliest Indian tribes to the present with emphasis on the period since statehood in 1850. Three hours lecture weekly.

- **27 Native American History** (3 units)
  - Prerequisite: None.
  - United States history with emphasis on the American Indian's point of reference. A review of the past and present policies of the U.S. government toward the American Indians. Covers the cultural roots of the American Indian population with particular reference to the southwestern United States. Three hours lecture weekly.

- **28 Native American History: Early Contact Period** (3 units)
  - Prerequisite: None. Qualifying reading test scores recommended.
  - A study of the European/Native American contact period from 1492 to 1871 as presented from the American Indian's point of reference. Three hours lecture weekly.

- **29 Native American History: Contemporary Society** (3 units)
  - Prerequisite: None. Qualifying reading test scores recommended.
  - A study of federal Indian policy and economic development on Indian reservations as it has developed since 1871. Cultural conflicts, recent movements, and the struggle for and use of land will be examined from an American Indian's point of reference. Three hours lecture weekly.

- **30 Introduction to Chicano Studies** (3 units)
  - Prerequisite: Qualifying reading test scores recommended.
  - Historical and cultural roots of the Chicano population of the United States from the Spanish and Mexican colonial period to the 1950's. Considers the Constitution of the United States and its relevance to Chicanos as America's second largest minority group. Three hours lecture weekly.

- **31 Introduction to Chicano Studies** (3 units)
  - Prerequisite: Sociology 31 or concurrent enrollment recommended.
  - A survey of regional Chicano history and social problems from 1950 to the present. Included is an examination of the principles of state and local government as well as political, economic and social forces as they relate to contemporary Chicano problems. Three hours lecture weekly.

- **34 History of Women in America** (3 units)
  - Prerequisite: None.
  - A survey of the political, social, and cultural institutions which have shaped the role and character of women in America. The historical role of women in the development of the nation, and the ongoing struggle to achieve political,
**HISTORY**

Economic, and social equality will be examined. Three hours lecture weekly.

35 History of England 3 units

Prerequisite: Qualifying reading test scores recommended.

A survey of the historical development of the major social, political, and economic ideas and institutions of England from the Roman occupation, the coming of the Anglo-Saxons, and the Norman Invasion to the Tudor and Stuart reigns, the age of the Enlightenment, and modern England. Three hours lecture weekly.

50-AB United States History for the Deaf 3-3 units

Prerequisite: For deaf students only.

Fundamental ideas and events in the history and development of the United States. Materials and methods of instruction designed to bring appreciable improvement to students with reading problems. Three hours lecture weekly.

53 History of Modern American Society 3 units

Prerequisite: None. Not open to students enrolled in or who have taken History 6, 7 or History 8, 9.

A general introduction to modern American history. Examples of topics which may be covered include: state and national institutions, economic developments, feminism, literature, social structure, race relations, technological change, nationalism, foreign policy, urban/rural affairs. Three hours lecture weekly.

**HOME ECONOMICS**

1 Food Preparation 3 units

Prerequisite: None.

Ingredients used in preparing foods and an understanding of the basic principles underlying their use. Skill in combining ingredients and in cooking foods. Two hours lecture and three hours lab weekly.

4 Nutrition 3 units

Prerequisite: None.

Modern nutrition and its application to people of all ages and conditions, the importance of nutrition and changing concepts, specific food nutrients and how to make nutrition information function. A study of modern convenience foods and their impact on present day diets. Three hours lecture weekly.

5 Clothing Construction and Textiles 3 units

Prerequisite: None.

Fundamental principles of clothing construction and application of construction techniques. Includes selection of appropriate designs according to art principles as well as basic and new information of construction and fitting. Two hours lecture and three hours lab weekly.

7 Child Development 3 units

Prerequisite: None.

Pre-natal growth, the birth, and development through the years of childhood. Emphasis on physical, mental, social, and emotional development. Includes nursery school observation. Three hours lecture weekly.

8 Introduction to Home Economics 1 unit

Prerequisite: None.

Covers the total profession of home economics, differentiating the various areas of the field as to function, scope, professional training and experience needed; also includes history and helpful federal legislation. One hour lecture weekly.

10 Clothing Selection and Analysis 2 units

Prerequisite: None.

Principles of color and design are applied to clothing selection appropriate for the individual and the family. Analysis of individual differences, age, coloring, and special figure problems. Wardrobe and accessory evaluation and planning. Two hours lecture weekly.

20 Textiles 3 units

Prerequisite: None.

Textile fibers and the fabrics made from them; historical background, production, and manufacture; understanding and evaluation of new fibers, fabrics and finishes. Three hours lecture weekly.

21-A Creative Pattern Drafting, I 2 units

Fall

Prerequisite: Home Economics 5 or equivalent.

Application of the principles of dress design to the construction of patterns by flat pattern method. Emphasis is placed on the development and use of a basic sloper, and on the interpretation of a design in relation to clothing construction principles and the making and designing of patterns. One hour lecture and two hours lab weekly.

21-B Creative Pattern Drafting, II 2 units

Spring

Prerequisite: Home Economics 21-A or equivalent course.
HOME ECONOMICS

The basic pattern will be used in developing more advanced pattern drafting techniques and solving more advanced design problems. One hour lecture and two hours lab weekly.

25-A Beginning Fiber Arts 2 units
Prerequisite: None.
Fundamental principles in creative stitchery and the application of these principles in producing fiber-oriented objects. Includes basic techniques of macrame, stitchery, and weaving. One hour lecture and two hours lab weekly.

25-B Advanced Fiber Arts 2 units
Prerequisite: Home Economics 25-A or equivalent.
An in-depth study of the principles and skills acquired in Home Economics 25-A. Emphasis will be in the areas of rug making, quilting, needlepoint, stitchery, and knotting. Opportunity for individual projects. One hour lecture and two labs weekly.

30 Consumer Economics 3 units
Prerequisite: None.
Applied economics oriented toward rational personal decision-making in budgeting limited income, buying, and financial planning. Economic principles and institutional structures are presented insofar as they affect consumer choices. Emphasis is placed upon acquiring relevant information and arriving at decisions which lead to explicitly formulated personal goals. Three hours lecture weekly.

40 Introduction to Food Service 3 units
Prerequisite: None.
The scope and responsibilities of a food service within a health care institution, community care, or school feeding program. Job positions at all levels are discussed, including education and experience requirements, personal qualifications, job responsibilities, and future opportunities.

41 Sanitation and Safety 2 units
Prerequisite: None.
This course includes the basic principles of sanitation and safety and the application of these principles to a food service operation. Emphasis will be placed on the supervisor's responsibility in maintaining high standards of these principles.

42 Quantity Food Production Equipment 1 unit
Prerequisite: Home Economics 1.
To teach the proper selection, use, care and placement of quantity food preparation and service equipment. The type, size, and quantity of equipment required for various sizes and kinds of food service operations will be included.

43 Quantity Food Preparation 3 units
Prerequisite: Home Economics 1.
This course presents the basic principles of food preparation as it applies to hotel, restaurant and institutional food service operations.

44 Food Production Management 2 units
Prerequisite: Home Economics 1, Home Economics 42.
Quantity food production management techniques. Topics covered include food standards, food production procedures, standardized recipe development, equipment uses, safety and sanitation, types of production systems, work organization, menu implementation, service of food, emergency planning, and cost control. Two hours lecture.

45 Supervision and Training 3 units
Prerequisite: Home Economics 44.
This course includes the importance of supervisory techniques in Food Service Management. The scope of a supervisor's responsibility for orientation, training, and supervision of subordinate personnel. Also includes recruitment, communication, evaluation, and record keeping.

46 Menu Planning 1 unit
Prerequisite: Home Economics 40, 1, 4 or equivalent.
The planning of satisfying and interesting meals for institutional food service operations, considering such factors as nutritional adequacy, psychological needs, economic considerations, types of operations, available equipment and skill of personnel. One hour lecture.

47 Food Purchasing and Cost Control 2 units
Prerequisite: Home Economics 43, 44 or concurrent enrollment.
Receiving procedures; controlled food production; inventories; storeroom issues; standardized recipes; utilization of employees; maintenance of records to control costs; master menus.
**HOME ECONOMICS**

48 Modified Diets 2 units

Prerequisite: Home Economics 4.

The use of dietary modifications in the treatment of disease is the basic content of this course. Those diseases most commonly requiring a therapeutic diet are discussed with emphasis on why the diet is beneficial and how it is actualized in terms of food. The needs of each patient as an individual and appreciation of his food tolerances are stressed. The role of each member of the medical team in nutritional care is discussed, emphasizing the responsibilities of the dietetic service supervisor. Three hours lecture weekly.

49-A Supervised Field Experience 2 units

Prerequisites: Eight hours of field experience, concurrent enrollment in Home Economics 4 - Nutrition.

A directly supervised experience in hospital and skilled nursing facilities.

49-B Supervised Field Experience 1 unit

Prerequisite: To be taken concurrently with Home Economics 48.

A supervised experience in hospitals and long term care facilities.

50 Home Management 2 units

Prerequisite: None.

Problems of family living in relation to food, clothing, and shelter; management of time, energy and money; use of labor saving equipment; family and personal resources. Two hours lecture weekly.

53 Advanced Clothing 3 units

Prerequisite: None.

Special emphasis on fitting, pattern alterations, unusual and difficult fabrics, special details, custom finishing, garment renovation, and an introduction to pattern drafting. Three hours lecture weekly.

54 Tailoring 3 units

Prerequisite: None.

Advanced techniques in the construction of suits and coats for men and women. Study of special interfacings, press shaping, padding stitches, and roll lines. Includes short cuts, custom finishes and special techniques of tailored garments. Three hours lecture weekly.

71 Nutrition Related to Community Feeding Programs 1 unit

Prerequisite: None.

Principles of basic nutrition and their application to menu planning. Nutritional recommendations and requirements of federally sponsored and governed institutions. Modification of the normal diet will be discussed. One hour lecture weekly.

72 Institutional Baking: Principles and Techniques 2 units

Prerequisite: None.

Pour and drop batters; soft and stiff doughs; functions and effects of the essential ingredients, baking times, temperatures and handling techniques. One and one-half hours lecture and one hour lab weekly.

76 Time and Motion in Quantity Food Preparation 1 unit

Prerequisite: None.

Fundamentals of time and motion studies followed by instruction in applying these studies to quantity food production. Emphasis will be placed on how to discover, implement and teach new work methods to conserve energy and increase efficiency. One hour lecture weekly.

80 Home Furnishings 2 units

Prerequisite: None.

Basic principles and elements of art necessary to create a comfortable and beautiful home. The construction and selection of furniture, carpets, draperies and accessories are included along with the study of furniture arrangements. Two hours lecture weekly.

85 Consumer and Homemaking Education 3 units

Prerequisite: None.

The course encompasses the management of household finance, community resources, and services, child development and family relations, housing and home furnishings, foods and nutrition, and clothing and textiles. Prepares students for the role of homemaker, especially those employed outside the home. Three hours lecture weekly.
HOME ECONOMICS

86 Consumer and Homemaking Problems 3 units

Prerequisite: none.

Stresses the practical ways to stretch the consumer dollar and how the wise use of money relates to personal finances, use of credit, food purchasing, preservation, and storage, buying and renovating of clothing, health care and services, home management, and child care and training. Prepares students to understand the importance of the consumer in the community, the problems encountered, and the laws protecting the consumer, wills, trusts, estate planning and legal problems. Three hours lecture weekly.

HUMANITIES

1-A Honors Colloquium, I Fall 3 units

Prerequisite: Open to honors students. Students are expected to take both 1-A and 1-B.

Germinal problems in the history of Western thought are approached through five disciplines in seminar discussions held one day each week for three hours with the Colloquium staff. Considerable reading in core and background material is expected.

1-B Honors Colloquium, II Spring 3 units

Prerequisite: Humanities 1-A.

The problems examined in Humanities 1-A are approached through discussion of major works representing great epochs in Western civilization.

10 World Religions 3 units

Prerequisite: None.

Thought and concepts of the major religious systems, including primitive religions, extinct national religions, Hinduisim, Buddhism, Taoism, Confucianism, Shintoism, Zoroastrianism, Judaism, Christianity, Islam and Sikhism. Three hours lecture weekly.

45 Black Experience in the Fine Arts 3 units

Prerequisite: None.

A course designed for students wishing to increase their knowledge and understanding of music, art, poetry, dance, and theater as they relate to contemporary Black society. Three hours lecture weekly.

50 Humanities, I Fall 5 units

Prerequisite: None.

ITALIAN

An interdisciplinary team teaching approach to the relationships of individuals to society through varied experiences. Emphasis is placed on analysis and evaluation of experiences. Five hours lecture weekly.

51 Humanities, II Spring 5 units

Prerequisite: None.

An interdisciplinary examination of societal problems from the 1920's to the present, with special emphasis on the interrelationships of social issues. Five hours lecture weekly.

Additional Humanities Courses

Examples of courses which are often classified as Humanities by other colleges and universities are:

- Art 1, 2, History and Appreciation of Art, see page 107 ff.
- English 6, 7, English Literature, see page 145.
- English 14, 15, American Literature, see page 146.
- English 40, 41, Masterpieces of World Literature, see page 148 ff.
- English 42, Far and Near: The Literature of the East, see p. 149.
- Foreign Languages, see pages 154 ff., 157 ff., 175 ff., 230 ff.
- History 4, 5, History of Western Civilization, see page 164 ff.
- Music 20, 21, Music History and Literature, see page 192.
- Any philosophy course, see page 205 ff.
- Theater Arts 13, History of the Theater, see page 240.
- See also Humanities A.A. degree requirements, page 27.

ITALIAN

1 Italian, I Fall 4 units

Prerequisite: None.

The essentials of Italian grammar with emphasis on reading and understanding of easy texts with conversation based on these texts. Four hours lecture weekly. An additional hour of lab is required weekly.

2 Italian, II Spring 4 units

Prerequisite: Italian I.

Further study of Italian grammar and idiomatic expressions. Reading, writing of short compositions. Comprehension of additional texts and more conversation based on collateral readings. Four hours lecture weekly. An additional hour of lab is required weekly.

50-Ab Conversational Italian 4-4 units

Prerequisite: None.
ITALIAN

A beginning course of Italian conversation which deals with different aspects of Italian life and culture. Emphasis on pronunciation, speaking, understanding and reading comprehension. Four hours lecture weekly. An additional hour of lab is required weekly.

JOURNALISM

1 Introduction to Journalism 3 units
Prerequisite: Qualification for English 1-A.
The role of print media, with theory and practice in news story structure, responsible news evaluation, news gathering methods, interviewing, reporting techniques, copy editing, headline writing, and makeup techniques in general. Three hours lecture weekly.

2 News Writing 3 units
Prerequisite: Journalism 1.
Continued theory and practice in general news writing and reporting, with emphasis on news-features, feature editorial writing, sports, society, columns, and newspaper writing in general. Studies in mass media forces in society. Three hours lecture weekly.

5 Survey of Black Communications 3 units
Prerequisite: None.
The role of the Black press in the American society beginning with the pre-Civil War period to the present time. Three hours lecture weekly.

7 Mass Communications 3 units
Prerequisite: None.
Surveys and evaluates the mass media. Special attention is given to newspapers, magazines, radio, TV, motion pictures, and advertising, and to their impact on society and the individual. Three hours lecture weekly.

11-ABCD Publications Photography 2-2-2-2 units
Prerequisite: Photography 8 or equivalent experience.
Emphasis in taking pictures acceptable for publication in various media to give a wide variety of photographic experience. College equipment and darkroom facilities are available. Six hours lab weekly.

12 Photojournalism 2 units
Prerequisite: Photography 8 or equivalent.

15 The New Journalism 3 units
Prerequisite: None.
A survey of the New Journalism as defined by Tom Wolfe. The student will read and write articles in this modern genre. Three hours lecture weekly.

50-ABCD Newspaper 2-2-2-2 units
Prerequisite: Journalism 1 or Photography 8 or equivalent experience.
Courses will be taken in alphabetical sequence, beginning with the A semester, no matter in which semester enrollment begins.
Emphasis is on both theory and practice in producing the college weekly newspaper, Viewpoints. Qualified students may serve in various capacities, ranging from editorial work to photography, circulation, and advertising. One hour lecture and five hours lab to be arranged weekly.

51-ABCD Magazine 2-2-2-2 units
Prerequisite: None.
Courses will be taken in alphabetical sequence, beginning with the A semester, no matter in which semester enrollment begins.
Emphasis is on both theory and practice in producing the college publications. Qualified students may serve in various editorial capacities. One hour lecture and five hours lab to be arranged weekly.

54-ABCD Journalism Internship 2-2-2-2 units
Prerequisite: Employment by a participating newspaper and concurrent enrollment in another journalism course. Courses will be taken in alphabetical sequence, beginning with the A semester, no matter in which semester enrollment begins.
On-the-job training in either the editorial or advertising departments of local newspapers. Detailed reports on the student's progress are made to the college, and special assignments are given in the on-campus class as the need is indicated. A minimum of 108 hours of employment each semester is required.

ALSO SEE — Photography, page 000
LIBRARY

LIBRARY

1 Use of Books and Libraries 1 unit

Prerequisite: None.

The library and its resources and approaches to research for class assignments. Major tools and topics covered are the card catalog, classifications systems, indexes to magazines and important reference books. Of special value to those students intending to transfer to four-year institutions. Two hours lecture weekly for nine weeks.

50 Introduction to Library Operations and Services 3 units

Prerequisite: Library 1 with a C grade or better, or may be taken concurrently.

Functions of the library clerk and technician. Procedures, tools, and clerical techniques of public, school, college, and special libraries. A study of library circulation systems and procedures, ready reference services, public relations, and publicity. Field trips to selected libraries. Three hours lecture weekly.

53 Technical Processes 3 units

Prerequisite: Library 1, 50 with a C grade or better.

A practical survey of the clerical tasks required for the ordering and cataloging of books and preparation of library materials for circulation, with practice in these fields. A typing skill of 30 words per minute is essential. Three hours lecture weekly.

56 Children and Young Adult Library Services Spring 2 units

Prerequisite: None.

A survey of children's and young adult's libraries and books with emphasis on the role of the clerk or technician. Two hours lecture weekly.

57 Audio-Visual Materials, Methods and Uses Fall 1 unit

Prerequisite: None.

A survey of audio-visual materials, methods, and equipment and their use as they apply to instructional programs, with emphasis upon the role of the technician as a teacher's aide. Two hours lecture weekly for nine weeks.

59-ABCD Work Experience 1-2-3-4 units

Prerequisite: Library 1, 50 and 53 with a grade of C or better. (Library 53 may be taken concurrently.)
MARKETING

reer opportunities that exist in the fashion field. Three hours lecture weekly.

31 Fashion Analysis 3 units
Prerequisite: None.
History of fashion (when and what people wear, what they do, what they use, how they live). Fashion cycles and mass media. Textiles and accessory materials; design and color. Influence of fashion on costume design and production, on interior design and the decorative arts, and on furniture and architecture. Three hours of lecture weekly.

40 Advertising 3 units
Prerequisite: None.

41 Techniques of Selling 3 units
Prerequisite: None.
Persuasive sales communication, personal and impersonal motivation for products, services and ideas. Analysis of behavioral sciences and their impact on the selling process. Evaluation of psychological factors, ethical problems, philosophies of salesmanship. Three hours lecture weekly.

42 Retail Management 3 units
Prerequisite: None.
Merchandising analysis of the changing concepts and business objectives of retailing. Management philosophies, strategies, and functions (from individual to multi-unit firms). Social and economic forces on decisions concerning location and operational policies. Analysis of forms of retailing, such as foods, motels, service stations, and direct channels. Three hours lecture weekly.

70-ABCD Distributive Education Work Experience 1-2-3-4 units
Prerequisite: None.
This class is designed to coordinate the student's on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences weekly.

MATHEMATICS

1-A Analytic Geometry and Calculus, I 4 units
Prerequisite: Mathematics 52, 53, 35, 36 and 10 with Grade C or better; or, 4 years of high school mathematics with B average or better.
Plane analytic geometry, functions, differentiation, application of the derivative including maximum and minimum problems, integration and application of the definite integral, and conic sections. Four hours lecture weekly.
Credit for this course can also be earned by achieving a score of 3 or better on the Calculus AB Advanced Placement Test.

1-B Analytic Geometry and Calculus, II 4 units
Prerequisite: Mathematics 1-A.
Limits, continuity, transcendental functions, parametric equations, polar coordinates, methods of integration and further application of the integral. Four hours lecture weekly.
Credit for this course can also be earned by achieving a score of 3 or better on the Calculus BC Advanced Placement Test.

2-A Solid Analytical Geometry and Calculus and Ordinary Differential Equations, I Fall 4 units
Prerequisite: Mathematics 1-B.
Limits and continuity, indeterminate forms, infinite series, solid analytic geometry, vector in a plane and in space, partial derivatives, multiple integrals. Four hours lecture weekly.

2-B Solid Analytical Geometry and Calculus and Ordinary Differential Equations, II Spring 4 units
Prerequisite: Mathematics 2-A.
Special types of differential equations, linear differential equations, series solution of differential equations, Fourier series, vector field theory. Four hours lecture weekly.

5-AB Mathematical Analysis 3-3 units
Prerequisite: Two years of high school algebra and trigonometry or equivalent.
Calculus for majors in economics, business management and biological and social sciences. An intuitive approach to calculus. Emphasis on problem solving and applications. Topics include: sets, functions, inequalities, graphing, differentiation, limits, continuity, integration, maxima and minima, log, trig and exponential functions and calculus of higher dimensions. Three hours lecture weekly.
7  Slide Rule 1 unit

Prerequisite: None.
Theory and use of the slide rule for problems involving multiplication, division, square root, cube root, trigonometric functions, logarithms, and proportion. Designed to meet the needs of students in science or other fields which require large amounts of such mathematical computation. Two hours lecture weekly for nine weeks.

8  Computing Devices Spring 3 units

Prerequisite: Mathematics 10 or concurrent enrollment.
An introduction to FORTRAN Language for programming problems in mathematics, science, engineering. Operation of the IBM 1620 computer. Use of “Log Log” scales on the slide rule and use of desk calculators are included in this course designed for science and engineering majors. Two hours lecture and three hours lab weekly.

10 College Algebra (Precalculus Mathematics) 4 units

Prerequisite: Mathematics 36 or high school equivalent.
An integrated treatment of algebra and trigonometry at the college level, with major emphasis on sequences, conic sections, complex numbers, theory of equations, exponential and logarithmic functions, mathematical induction, matrices, and analytical trigonometry. The course is designed as a suitable foundation for calculus. Four hours lecture weekly.

12 Statistics 3 units

Prerequisite: Mathematics 35 or equivalent.
A comprehensive study of measures of central tendency, variation, the normal distribution, the t-distribution, the chi squared distribution, linear correlation, testing of hypotheses, probability, and estimation. Three hours lecture weekly.

18-A Introduction to Modern Mathematics, I 3 units

Prerequisite: Mathematics 52 and 53.
Basic concepts of mathematics; including sets, systems of numeration, the mathematics of arithmetic and techniques in problem solving. For elementary school teachers and prospective elementary school teachers. Three hours lecture weekly.

18-B Introduction to Modern Mathematics, II Spring 3 units

Prerequisite: Mathematics 18-A or equivalent.
Continuation of 18-A. Includes topics from number theory, geometry, algebra, finite systems, probability and techniques of problem solving. Three hours lecture weekly.

25 Exploring Mathematical Ideas 3 units

Prerequisite: Mathematics 52 and 53 or equivalent.
Modern ideas in mathematics for the non-science major, with emphasis on theory rather than application. Course includes historical discussions, interesting examples, puzzles, problems and discovery of mathematical relationships. Topics include logic, sequences, functions, graphs, logarithms, probability, statistics, permutations, topology, networks, conic sections and polygons. Three hours lecture weekly.

35 Intermediate Algebra 4 units

Prerequisite: One year of high school algebra or Mathematics 52 with a C grade or better.
The concepts introduced in beginning algebra are presented again but in greater depth. In addition to basic considerations, determinants, logarithms, exponential equations; systems of quadratic equations, progressions, binomial theorem, the complex number system, permutations, combinations and probability are included. Four hours lecture weekly.

36 Trigonometry 3 units

Prerequisite: Plane geometry, one and one-half years of high school algebra, or Mathematics 35.
Introduction to circular motion, angles and their units of measurement, rectangular co-ordinates, trigonometric functions and their use in solving right triangles, scientific notation, interpolation, identities and proofs, trigonometric functions of multiple angles, graphical representation of trigonometric functions, solution of oblique triangles by application of the laws of sines, cosines and tangents, logarithms to the base 10 and complex numbers. Three hours lecture weekly.

50 Modern Mathematics for Teacher Aides 3 units

Prerequisite: None. Prefer employment as teacher aide.
A background in modern mathematics for those employed as teacher aides. Includes a study of systems of numeration, sets, whole numbers, integers, fractions and number theory. Three hours lecture weekly.

51 Elementary Arithmetic 2 units

Prerequisite: None.
A review course covering the decimal system of numeration and the four basic mathematical operations as they apply to
MATHEMATICS

whole numbers, fractions, decimals and per cent. Factor-
ing, geometric figures and measurement are included. Em-
phasis is placed on application to everyday problems. Three
hours lecture weekly.

52 Elementary Algebra

4 units

Prerequisite: None.

The equivalent of first-year high school algebra. A study of
positive and negative real numbers and variables as they
are involved in fractions, binomials, trinomials; linear,
quadratic, and simultaneous equations, inequalities, expo-
nential and radical expressions, and absolute values. Fac-
toring expressions, graphing equations and solving word
problems are included. Four hours lecture weekly.

53 Plane Geometry

3 units

Prerequisite: Math 52 or equivalent.

The high school course in geometry, designed for students
who did not receive credit for it in high school, yet who
must complete the work for lower division requirements.
Three hours lecture weekly.

54 Preparatory College Math

3 units

Prerequisite: None.

A survey of two courses presently offered by the college:
Math 52 and Math 53. Covers the areas of arithmetic, alge-
bra, and geometry with emphasis upon applications. Upon
successful completion of the course, students will be able to
enter Math 55. Three hours lecture weekly.

MEDICAL ASSISTING

51 Medical Terminology

3 units

Prerequisite: None.

Basic structure of medical terms, origin, meaning, spelling,
pronunciation, prefixes, and analysis by use of word roots;
terms related to biological disorders as used in medical re-
cords and reports; study of basic anatomy. Three hours lec-
ture weekly.

52 Medical Office Procedures, I

2 units

Prerequisite: Medical Assisting 51 or experience as a medi-
cal assistant and typewriting ability.

Medical assisting in the physician's office including the re-
ception of patients scheduling and telephone techniques,
fundamental principles of human relations; secretarial du-
ties consisting of business letters and medical dictations;
administration of the business office, filing, office house-
keeping; medical law, legal relationships of physician and
patient, avoiding professional liability claims. One and one-
half hours lecture and one and one-half hours lab weekly.

53 Medical Office Procedures, II

2 units

Prerequisite: Medical Assisting 52 or experience as a medi-
cal assistant.

Financial records in the medical office; all types of medical
bookkeeping, including computer billing; credits and collec-
tions; medical insurance billing including medical care pro-
grams; understanding the Relative Value Study; tax re-
cords. One and one-half hours lecture and one and one-half
hours lab weekly.

54 Medical Office Procedures, III

2 units

Prerequisite: Medical Assisting 53 or experience as a medi-
cal assistant.

Nursing techniques as used in various medical specialties;
diet and nutrition, microbiology, pathology, sterilization,
drugs, first aid care, systems of the body, clinical know-
ledge of laboratory procedures, immunology, physiothera-
py, radiography. One and one-half hours lecture and one
and one-half hours lab weekly.

55-A Certified Medical Assistant Review, I

3 units

Prerequisite: None.

An extensive review of medical terminology, anatomy and
physiology, medical ethics, law and economics. Three hours
lecture weekly.

55-B Certified Medical Assistant Review, II

3 units

Prerequisite: Medical Assisting 55-A or equivalent.

An extensive review of professional liability, insurance pro-
grams on a national scale only, bookkeeping, medical re-
cords, laboratory procedures. Three hours lecture weekly.

56 Medical Transcription

3 units

Prerequisite: Medical Terminology 51 and Typing 50AB.

Basic structure of medical terms and their use and applica-
tion in various medical reports. Students will type surgery,
pathology, radiology, neurology, orthopedic and other re-
ports as they are encountered in the field of medical assist-
ing using transcribing equipment. Two hours lecture and
three hours laboratory.
MEDICAL ASSISTING

57 Medical Law and Ethics 3 units

Prerequisite: None.
A study of the principles of medical ethics and medical law as they apply to the physician, the patient and those employed in the medical field. Three hours lecture.

58 Pharmacology for Medical Assistants 3 units

Prerequisite: Medical Terminology 51.
A study of drug laws and standards, systems of measurement, preparation dosage and administration of medications, prescription writing and emergency drugs. Three hours lecture.

MEDICAL TECHNICIAN

65 Emergency Medical Technician I 5 units

Prerequisite: A standard First Aid & Personal Safety Certificate or the Advanced First Aid Certificate.
Covers techniques of emergency medical care presently considered within the responsibilities of the Emergency Medical Technician and all operational aspects of the job which are expected. Emphasizes the development of skills in recognition of symptoms of illnesses and injuries and proper procedures of emergency care. Four and one-half hours lecture per week, plus 16 hours of lab in a hospital emergency department and 8 hours of supervised experience on an operational emergency ambulance.

66 Emergency Medical Technician 1-A Refresher Course 2 units

Prerequisite: An Emergency Medical Technician I emergency card.
A refresher course for Emergency Medical Technician I, employed personnel. The administration of a comprehensive pre-test based on the learning objectives of the EMT I course. The course content then will be tailored to increase the knowledge level in areas of weakness. The course will also include lectures and demonstrations on new emergency medical services supported by the American Heart Association. Twenty-four hours lecture, twelve hours clinical experience for a total of 36 hours.

70 Introduction to Paramedics Training 6 units

Prerequisite: Medical Technician 65, Anatomy & Physiology 2-A, and Medical Assisting 51, all with a minimum grade of C.

MICROBIOLOGY

1 Microbiology 4 units

Prerequisite: None. High school chemistry or Chemistry 2, or a course in biological science recommended.
General characteristics of micro-organisms with emphasis on morphology, growth, reproduction and chemical activities; their control; role in disease; and application of their role to mankind. Three hours lecture and three hours lab weekly.

71 Intermediate Paramedics Training 6 units

Prerequisite: Medical Technician 70, with a minimum grade of C.
Enhances student's knowledge of administration of medication, and the physiology of shock and trauma. Provides clinical experience necessary to observe and practice the knowledge gained. Three hours lecture and nine hours lab weekly.

72 Advanced Paramedics Training 5 units

Prerequisite: Medical Technician 71, with a C grade or better and concurrent enrollment in Medical Technician 99.
Assists advanced paramedics in emergency situations that might be encountered during duty, including communications equipment, verbal and non-verbal communication, legal concepts, records and report writing. Five hours lecture weekly.

99 Work Experience 4 units

Prerequisite: Medical Technician 71 with a C grade or better and concurrent enrollment in Medical Technician 72.
A course designed to coordinate the advanced paramedic training with an ambulance facility. The student will accompany a registered paramedic. One hour lecture and 225 hours to be arranged.

1 Microbiology 4 units
MIDDLE MANAGEMENT

MIDDLE MANAGEMENT

60 Introduction to Management 3 units

Prerequisite: None.

Structure of organizations, manpower management, managerial economics and budgeting, planning, industrial engineering, factory systems and procedures, quality control, research, safety and industrial relations, special management problem solving, training development, and human relations. Three hours lecture weekly.

61 Managerial Accounting 3 units

Prerequisite: None.

Managerial concepts of accounting; procedures for financial reporting; systems and internal control; cost estimates, budgets; interpretation and usage of administrative charts, reports, graphs, and other media. Three hours lecture weekly.

62 Economics for Managers 3 units

Prerequisite: None.

Instruction in the development of economics; effort of the enterprise to secure profits; nature of demand for its products; costs and production; public control of competition; monopoly; automation; cost and price decisions; rationale of a private enterprise economy; international trade and associated economic factors affecting industry. Three hours lecture weekly.

65 Elements of Quality Control Spring 3 units

Prerequisite: None.

Covers the total quality control function in industry. Latest concepts and techniques in light of modern manufacturing requirements and current technological developments. Three hours lecture weekly.

66 Operation and Control of Production Systems 3 units

Prerequisite: None.

Principles of decision analysis related to the utilization of the factors of production in both intermittent and continuous systems. Production organization, methods of allocating facilities, of planning systems inventories and manpower, and of scheduling production; design and operation of control systems; replacement of equipment. Three hours lecture weekly.

67 Industrial Law 3 units

Prerequisite: None.

Laws affecting business and industry. Court structure and procedures, contracts, commercial paper, business associations, secured transactions, labor law, tort liability, creditor's rights and land use and zoning will be covered with emphasis upon California law. Three hours lecture weekly.

85 Basic Metallurgy 3 units

Prerequisite: None.

A background of basic metallurgical information. Subjects covered include selection and characteristics of metals and alloys, production of pure metals, principles of alloying and heat treating, production and fabrication processes, testing and inspection methods and techniques. Three hours lecture weekly.

86 Introduction to Engineering 3 units

Prerequisite: None.

An introductory survey of the tools, problems, challenges, fundamental concepts, responsibilities and business relationships of the engineer in industry. Engineering fields to be reviewed include: design, mechanical, civil, electrical research, quality assurance, metallurgical and material process and patents. Three hours lecture weekly.

87 Management by Objectives 3 units

Prerequisite: None. Middle Management 60 is recommended.

A detailed systems oriented study of management by objectives and results. Considers various organizational, departmental and individual approaches. Provides methods of establishing guidelines for effective management by objective programs. Considers methods, finds and sets objectives; validates and implements objectives; and controls and reports status of objectives. Three hours lecture weekly.

90 Purchasing 3 units

Prerequisite: None. Middle Management 60 is recommended.

A study of purchasing organization, practices and procedures and adaption to various kinds of business enterprises. Case studies of typical purchasing problems. Purchasing
as a function of "Material Management" and its relationship to other departmental functions. Three hours lecture weekly.

95 Management-Employee Relations 3 units
Prerequisite: None. Recommended: Supervisory Training 54 and 56.
Social forces leading to collective employee action in public and private institutions. Simulated collective bargaining with the constraints of current labor legislation and the aspirations of varying occupational groups. The economics of a strike. Conciliation, mediation and arbitration. Three hours lecture weekly.

96 Participative Decision Making 3 units
Prerequisite: None.
Develops an understanding of the laws of group behavior as applied in small management groups. A practical workshop approach to the development of leadership skills in problem solving and decision making. Three hours lecture weekly.

99-ABCD Work Experience 1-2-3-4 units
Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.
This class is designed to enable first-line management personnel to individualize their career goals with assistance from employers and college staff and to coordinate students' on-the-job training with related middle management classroom instruction. One hour lecture/discussion plus five to twenty hours employment per week.

MUSIC

1 Music Skills for Teachers 3 units
Prerequisite: None.
For teacher and teacher aide candidates and beginners in music. Emphasis on preschool and elementary school music. Voice, piano, auto-harp, song-flute and rhythm instruments at a basic level. The necessary rudiments of music theory will be presented as they apply to classroom music skills. Three hours lecture weekly.

3 Fundamentals of Music 4 units
Prerequisite: None. Recommendation: Concurrent enrollment in Music 32 (Class Piano) and another music performance class.
MUSIC

MUSIC materials organized to acquaint the student with representative musical literature through listening. Three hours lecture and one hour lab weekly. 1-28-77

20 Music History and Literature I

Fall 3 units

Prerequisite: None.
A study of the materials of music and simple and complex forms such as folk and art song, opera, symphonic poem and symphony. The history and music of nineteenth-century Romanticism is emphasized. Three hours lecture and one hour lab weekly. 1-28-77

21 Music History and Literature II

Spring 3 units

Prerequisite: None.
Baroque, Classic, Twentieth Century, and American music and history are included. Early polyphonic music, the oratorio, chamber music, symphony and the innovations of modern composers are emphasized. Three hours lecture and one hour lab weekly. 1-28-77

25 Survey of Jazz and Popular Music

2 units

Prerequisite: None.
A study of the history of jazz from its origins to the present day. Influential composers, instrumentalists, singers and arrangers. Popular music and its background. Two hours lecture and one hour lab weekly. 1-28-77

Musical Performance

Music majors are required to participate in performance classes each semester (choir, chamber singers, jazz ensemble or wind ensemble).

Performance courses will be taken in alphabetical sequence, beginning with A semester, no matter in which semester enrollment begins.

30-ABCD Class Voice

1-1-1-1 unit

Prerequisite: None for 30-A. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Group work in voice production, diction, and interpretation. Opportunity provided for individual attention and performance. Three hours lab weekly. 1-28-77

Students may earn a maximum of four units in Class Voice, including transferred units.

31 Musical Theater Workshop

2 units

Prerequisite: Vocal, dramatic or dance background and skill highly desirable.

The study of musical, dramatic and movement techniques in musical theater through the study and performance of representative material. One hour lecture and two hours lab weekly.

32-ABCD Class Piano

1-1-1-1 unit

Prerequisite: None for 32-A. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Group work in developing keyboard facility and reading of music notation. Opportunity provided for individual attention and performance. Developing knowledge and facility with primary chords, and their use in simple song accompaniment patterns. Three hours lab weekly. 1-28-77

Students may earn a maximum of four units in Class Piano, including transferred units.

35-ABCD Class Organ

1-1-1-1 unit

Prerequisite: One semester of class piano or equivalent. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Fundamentals of organ technique. Registration. Two-, three-, and four-part music; hymn playing. Opportunity provided for individual attention and performance. Three hours lab weekly. 1-28-77

Students may earn a maximum of four units in Class Organ, including transferred units.

37-ABCD Class Guitar

1-1-1-1 unit

Prerequisite: None for 37-A. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Fundamentals of guitar and related musicianship. Basic technique and repertoire unique to the folk guitar. Chordal accompaniment to folk singing will be emphasized. Students furnish own instrument. Three hours lab weekly. 1-28-77

Students may earn a maximum of four units in Class Guitar, including transferred units.

38-ABCD Applied Music Training

1-1-1-1 unit

Prerequisite: None for 38-A. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.
MUSIC

Individual instruction in voice, keyboard, string, brass, woodwind or percussion instruments. One hour lecture-recital instruction by the college staff and one lesson per week with a private instructor arranged for by the student. Credit granted only on certification by the college staff that the student has met established requirements through successful performance examinations administered by the staff. Two hours lab weekly.

39-ABCD Concert Choir 1-1-1-1 unit

Prerequisite: None. Open to all students interested in college singing experiences, but subject to review by the instructor. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Performance of secular and sacred music accompanied and unaccompanied choral music. Three hours lab weekly.

40-ABCD Chorale 1-1-1-1 unit

Prerequisite: Retention based on successful audition. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

This is the most advanced large choral group. Performance of accompanied and unaccompanied secular and sacred choral music. Three lab hours weekly.

41-ABCD Chamber Singers 2-2-2-2 units

Prerequisite: Retention based on successful audition. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Performance of music particularly adapted to small vocal ensembles. Five hours lab weekly.

42-ABCD Wind Ensemble 1-1-1-1 unit

Prerequisite: None. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Performance of standard concert band literature. Appearances at college functions and athletic contests are made throughout the year. Five hours lab weekly.

43-ABCD Jazz Workshop 1-1-1-1 unit

Prerequisite: None. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Practical experience in performing music in popular and jazz styles arranged for stage band. Three hours lab weekly.

44-ABCD College Jazz Ensemble 2-2-2-2 units

Prerequisite: Previous experience in performance of jazz literature and audition by instructor. Recommended concurrent enrollment in Music 42.

Practical experience in performing music in popular and jazz styles arranged for jazz ensemble. Opportunities provided for students to arrange and compose for the band as well as to direct. Five hours lab weekly.

45-AB Woodwind Instruments 1-1 unit

Prerequisite: None. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Class lessons for those who wish to learn to play flute, oboe, clarinet, saxophone or bassoon. Three hours lab weekly.

46-AB Brass Instruments 1-1 unit

Prerequisite: None. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Class lessons for those who wish to learn to play trumpet, trombone, French horn, baritone, and bass. Three hours lab weekly.

47-AB Percussion Instruments 1-1 unit

Prerequisite: None. Courses will be taken in alphabetical sequence regardless which semester enrollment begins.

Class lessons for those who wish to learn to play snare drum, bass drum, accessories, and mallet keyboard instruments. Three hours lab weekly.

50-ABCD Concert Analysis ¼-¼-¼-¼ unit

Prerequisite: None.

Course designed to provide the opportunity to attend a series of concerts combined with critical discussions of content and performance. One hour lab weekly.

51-ABCD Workshop: Composition and Practical Arranging 1-1-1-1 unit

Prerequisite: Music 3 or equivalent. Courses will be taken in alphabetical sequence, beginning with A semester, no matter in which semester enrollment begins.

Opportunity for individual creative projects in composing and arranging. Instruction in melody and accompaniment writing, instrumentation, and voicing will be applied directly to individual projects. The student may work in vocal or instrumental mediums and in serious or popular styles. Two hours lab weekly.
The Jazz Ensemble Gets a Workout

**52-AB  Recital Performance**  
½-¾ units

Prerequisite: High competence in performance medium.
A course designed to provide an opportunity for preparation and presentation of public performances. One hour lab weekly.

**54-ABCD  Community Jazz Ensemble**  
1-1-1-1 unit

Prerequisite: Previous experience in performance of jazz literature and audition by instructor.
Practical experience in performing music in popular and jazz styles arranged for jazz ensemble. Opportunities provided for students to arrange and compose for the band as well as to direct. Three hours lab weekly.

**55  Careers in Music**  
2 units

Prerequisite: None.
A course designed to acquaint the student with occupations in music and music related fields. Two hours lecture weekly.

**60  The Care and Repair of Instruments**  
2 units

Prerequisite: None.
A course designed to instruct the student in the care, repair and purchase of musical instruments. One hour lecture and two hours lab weekly.

---

**NURSING**

Two curricula are offered in nursing: The two-year Associate in Arts degree program leading to licensure as an R.N. and the one year vocational nursing program leading to licensure as an L.V.N. In addition, the college offers a course for nursing assistants.

---

**Associate in Arts Degree Program**

The two year program fulfills all the requirements for the Associate in Arts degree at Riverside City College and qualifies the graduate to take state examinations to become a registered nurse. Its primary purpose is to produce graduate nurses well qualified to render direct care to patients. The curriculum combines general education and nursing courses in a complete program enabling the student to obtain employment as a registered nurse without further preparation.

The college has affiliations with Riverside General, Riverside Community, Parkview Community, Knollwood Community, March Air Force Base, Kellogg Psychiatric and Circle City Hospitals, Alta Vista Community and the Community Convalescent Center, Riverside County Day Treatment Center and Twilight Haven Sanatorium as well as with clinics, doctors’ offices, and other community health agencies.

New classes in the degree program are admitted twice a year in September and January. Applications for admission to the college are accepted beginning April 1 for the fall semester and November 1 for the spring semester.

**Expenses:**

1. Students furnish their own uniforms. The cost is approximately $90.00.
2. The cost of nursing books and supplies approximates $300 for two years.
3. Day students pay a health fee each per semester, plus a parking fee of $5.00 per semester.
4. Students are urged to carry some form of health and accident insurance, including hospitalization. Policies are available to college students at reasonable rates. The college provides liability insurance at no cost to the student.

**Requirements for Admission to the Nursing Program**

Applicants must:

1. Be graduates of an accredited high school or present General Educational Development (G.E.D.) test scores equivalent to high school graduation.
2. Have completed one year high school or college chemistry including laboratory.
3. Have qualifying test scores on the college test battery. (See “Counseling Examinations,” p. 17-18)
4. Present a satisfactory record of a medical examination.
5. Have an overall 2.0 (C) grade point average in all college work attempted.
NURSING

9 The Person as a Nurse 1 unit
Prerequisite: Concurrent enrollment in Nurs. 1-A and 1-B.
Focuses on the roles, expectations, feeling of the person who is becoming a nurse. Communication skills are emphasized. The processes of problem solving and group interaction are used. Overview of nursing education and practice introduced. Two hours weekly.

10 The Nurse as a Person 2 units
Prerequisite: Nursing 9 and concurrent enrollment in Nurs. 2.
Focuses on the nurse’s need to be a person in her own right. Three hours weekly.

11 Personal and Social Values in Nursing 2 units
Prerequisite: Nursing 10 and concurrent enrollment in Nurs. 3. Consideration of evolving personal beliefs and values and their relationship to the individual’s effectiveness as a nurse and as a member of society. Three hours weekly.

12 Nursing Seminar 2 units
Prerequisite: Nursing 11 and concurrent enrollment in Nursing 4.
Includes philosophy of care and principles involved in providing organized nursing services. Correlates with laboratory experiences in Nursing 4 to develop beginning management skills. Anticipates the problems of the graduate nurse in seeking employment, planning for continued personal growth and meeting the responsibilities of the nursing practitioner. Three hours weekly.

20-A Special Nursing Techniques, I Summer 3 units
Prerequisite: Nursing 1 with C or better grade or completion of VN program or equivalent.
Prepares nurses to function in the operating room. Includes principles of aseptic technique, knowledge of operative procedures and supervised experience in the operating room. Six-week summer session. Three hours lecture and eighteen hours lab weekly.

20-B Special Nursing Techniques, II Summer 2 units
Prerequisite: Nursing 20-A.
Provides advanced theory and practice in surgical techniques. Includes supervised experience in specialized areas, such as urological, orthopedic, chest, eye, ear, nose, and throat, and neurosurgery. Six-week summer session. Three hours lecture and eighteen hours lab weekly.

--- Vocational Nursing ---

The vocational nursing program is a 12-month program designed to prepare qualified students to become licensed vocational nurses. The curriculum provides for patient-centered teaching and conforms to regulations of the California State Board of Vocational Nurse Examiners. Classroom instruction is offered concurrently with clinical practice to assist the student in the application of nursing theory to actual nursing situations. Graduates of this program are eligible to take the State Board examination, successful completion of which leads to licensure as a vocational nurse. To receive a certificate a minimum grade average of C in the certificate courses is required. An F grade in either theory or clinical practice will result in an F grade for courses combining theory and practice.

New classes are admitted once a year in September. Applications for admission begin April 1.

Requirements
1. Applicants must have 12th grade equivalent education or higher,
2. Take college aptitude and vocational tests, and
3. Present a satisfactory record of medical examination.

Expenses
1. The student furnishes his/her own uniform, costing about $80.00.
2. The cost of books and supplies approximates $125.
3. Students are urged to carry some form of health and accident insurance including hospitalization. Policies are available to college students at reasonable rates. The college provides liability insurance at no cost to the student.
4. Students pay a health fee each semester and a parking fee of $5.00 per semester.
NURSING

Attendance Requirements and Grades

Attendance policies are based on college policy and requirements of the California Board of Vocational Nurse and Psychiatric Technician Examiners.

Absences in excess of 30 hours combined class and laboratory time must be made up in the clinical area at the end of the program. Students are not eligible to take State Board examinations until make-up time has been completed. However, the college cannot guarantee that all make-up time can be scheduled prior to the first State Board test following graduation.

Students will be notified when 20 hours of absence have been accumulated.

Excessive Absence in Total VN Program
1. Absences in excess of 60 hours or 10 consecutive days, for whatever reason, shall be deemed cause for dropping a student from the program. Such a student may re-enter the program the following year at the beginning of the course in which the absence occurs.
2. By State Board regulation, we are required to drop any student whose cumulative absences exceed 20 separate absence days, regardless of reason, number of hours or whether class or laboratory time. Students will be notified when 15 days have accumulated.

Procedure For Appeals by Vocational Nursing Students.
Same procedure applies to vocational nursing students as outlined under Associate Degree Program. (See page 198.)

51 Physical Foundations Fall 2 units
Prerequisite: Admission to the program.

Body functions essential for life, major requirements for personal health and scientific principles from bacteriology and nutrition as a foundation for practice of vocational nursing. Two hours lecture weekly.

52 Psychological-Social Foundations Fall 2 units
Prerequisite: Admission to the program.

Physical, mental and emotional development of individuals from infancy through old age, the family as a unit and the relationship between health of the individual and the family to community health. Two hours lecture weekly.

53 Vocational Foundations Fall 2 units
Prerequisite: Admission to the program. Concurrent enrollment in or completion of Nursing 56, 57.

Definition, functions, responsibilities, and roles of the vocational nurse within the occupation of nursing. Two hours weekly.

54 Health Deviations Fall 2 units
Prerequisite: Admission to the program.

Physical and mental deviations from health as a foundation for the practice of vocational nursing. Two hours lecture weekly.

56 Fundamentals of Vocational Nursing Fall 3 units
Prerequisite: Nursing 51, 52, 53, 54 or taken concurrently. Nursing 57 must be taken concurrently.

The art of assisting persons to meet essential activities of daily living. A beginning knowledge of specialized nursing techniques.

57 Fundamentals of Nursing Laboratory Fall 6 units
Prerequisite: Nursing 56, or taken concurrently.

Selected experience in the observation and care of people of all ages in a variety of settings for the concurrent application and practice of experiences from all foundation courses. Eighteen hours lab wkly.

60 Vocational Problem Solving Spring 2 units
Prerequisite: Overall C average in Nursing 51, 52, 53, 54, 56 and 57 and with a grade of C or better in Nursing 57.

Guidance on vocational opportunities and responsibilities of the vocational nurse. Emphasis on actual problems arising as the student learns the practice of nursing. Two hours lecture weekly.

61 Nursing Care of Families (Twelve Weeks) Spring 5 units
Prerequisite: Over-all C average in Nursing 51, 52, 53, 54, 56 and 57, and with a C or better in Nursing 57.

The family as it experiences common health situations requiring special assistance and medical care. Includes care of mothers and infants, children, adolescents, adults, and senior citizens with health problems associated with their age groups. Emphasis on the role of the family in meeting these situations. Four hours lecture and eleven hours lab weekly.

62 Nursing Care of Ill Persons (Twelve Weeks) Spring 5 units
Prerequisite: Over-all C average in Nursing 51, 52, 53, 54, 56 and 57 and a grade of C or better in Nursing 57.

Care of patients with common nursing problems which will help the student to understand and apply principles of nursing care. Opportunity provided for care of patients in all age groups, from various ethnic and social backgrounds, and
with common medical and surgical diagnosis. Four hours lecture and ten hours lab weekly.

63 Care of Patients with Impairment of Vital Functions (Six Weeks) Spring 5 units

Prerequisite: Nursing 61 and 62 with a C or better grade.
Care of patients with impairment of functions vital to maintenance of life. The assisting role of the vocational nurse in complex nursing situations is emphasized. Includes responsibilities and life-saving measures in emergency situations. Eight hours lecture and twenty-one hours lab weekly.

64 Care of Patients in States of Helplessness Summer 6 units (Six weeks)

Prerequisite: Nursing 63 with a C or better grade.
Focus on the care of patients in health situations characterized by helplessness, as unconsciousness, acute stages of illness, paralysis, immobility. Emphasizes the role of the vocational nurse as the one frequently responsible for personal care, as member of the health team, and as assistant to the professional nurse. Six hours lecture, thirty-two hours lab weekly.

65 Care of Patients in States of Mental Incompetency (Six weeks) Summer 6 units

Prerequisite: Nursing 64, with a C or better grade.
Care of patients with personality changes, functional disorders of the brain and organic diseases of the nervous system which interfere with normal intellectual and emotional behavior. Includes the study of and experience in caring for persons with disturbed interpersonal relationships. Six hours lecture, thirty-four hours lab weekly.

NURSING ASSISTANT PROGRAM

90 Nursing Assistant 5 units

Prerequisite: None.
Combined theory and practice in personal care services during illness including cleanliness, nutrition, elimination, and activity needs of ill persons. Emphasizes responsibilities to the employers and the role of assisting the nurse. Three hours lecture and seven hours lab weekly for one semester, or other arrangements totaling 180 hours of instruction.

OCEANOGRAPHY

1 Introduction to Oceanography 4 units

Prerequisite: None. A course in geology recommended.
Covers the physical, chemical, and geological processes in the oceans, including such topics as sea floor spreading, plate tectonics, coriolis forces, oceanic circulation, chemical properties of sea water, and elementary oceanographic techniques. Three hours lecture and three hours lab weekly.

2 Marine Geology 4 units

Prerequisite: Oceanography 1.
Geological aspects of oceanography, recent and ancient marine environments, influence of physical, chemical, and biological systems on the geologic environment. Includes sedimentation in world oceans, global tectonics, carbonate and noncarbonate systems. Three hours lecture and three hours lab, to be arranged, weekly.

PHILOSOPHY

10 Introduction to Philosophy 3 units

Prerequisite: None.
An introduction to the main areas of philosophy: metaphysics, epistemology, ethics and contemporary philosophy. The topics are covered in such a way as to reflect their influence and their importance in relation to current conditions and present day problems. Three hours lecture weekly.

11 Introduction to Critical Thinking 3 units

Prerequisite: None.
Concepts and methods employed in critical thinking in everyday experience and the general fields of knowledge. Topics covered include semantics and linguistic analysis, fallacies, and deductive and inductive methods of reasoning. Three hours lecture weekly.

12 Ethics in Contemporary Life 3 units

Prerequisite: None.
Contemporary problems in ethics. The perennial ethical problems of the nature of the good, individual vs. social values, moral choice and moral obligation are considered as they bear on current issues in sex and family life, civil rights, race relations, law and order, protest and civil disobedience, pacifism and productivity and leisure. Three hours lecture weekly.
PHILOSOPHY

13 Aesthetics 3 units

Prerequisite: None.

The philosophy of the arts, including the nature and function of the aesthetic experience, aesthetic meaning and value, form, expression and the bases of aesthetic criticism. Class experience in analyzing and evaluating music, painting and literature. Three hours lecture weekly.

14 Survey of Black Thought 3 units

Prerequisite: None.

A survey of Black thought from the earliest times, including Ethiopian-Egyptian-Coptic sources, medieval Muslim Africa, and the modern western slave and liberation periods. Representative of the modern periods such as Frederick Douglass, Marcus Garvey, Du Bois, Malcolm X, Carmichael and Cleaver. Three hours lecture weekly.

19 Native American Thought 3 units

Prerequisite: None.

Philosophical and religious beliefs and practices of Native Americans. Their history, views of man and nature. Emphasis placed on Native American thought as conveyed by Indian people, and its relevance to contemporary problems and conflicts between the two societies. Three hours lecture weekly.

20 History of Greek Philosophy 3 units

Prerequisite: Qualifying test scores.

A survey of the beginning and rise of Western science and philosophy; pre-Socratic era, Socrates, Plato, Aristotle; Greek philosophical influence upon the Roman Empire and Medieval Europe. Three hours lecture weekly.

21 History of European Philosophy 3 units

Prerequisite: Qualifying test scores.

Continuation of Philosophy 20 but may be taken independently. A survey of the Renaissance and the rise of humanism and of modern science; rationalism, empiricism, and the rise of the modern mind. Three hours lecture weekly.

30-A Critical and Speculative Philosophy 3 units

Prerequisite: Philosophy 10.

Emphasis is placed on semantics, theory of knowledge, methodology and world views. In both semesters central concern is with perennial problems and their attempted solutions. Three hours lecture weekly.

PHOTOGRAPHY

30-B Value Disciplines 3 units

Prerequisite: Philosophy 30-A.

A presentation of philosophy as the attempt to think reflectively and critically upon everyday problems. Questions are emphasized which arise in discussions concerning philosophy of religion, ethics, politics and the arts. Three hours lecture weekly.

32 Introduction to Symbolic Logic 3 units

Prerequisite: One year of high school algebra or Math 52 with a C or better grade. Math 18 recommended.

Principles of deductive reasoning, including the practical application of modern symbolic techniques aiding the clarification of thought and discourse. Three hours lecture weekly.

PHOTOGRAPHY

8 Introduction to Photography 3 units

Prerequisite: None.

Theory and practice in the basic techniques of producing black and white photographs with technical and artistic value, including the use of cameras, materials and processes in darkroom procedures. Students will be expected to supply their own film and photographic paper. Two hours lecture and three hours lab weekly.

9 Intermediate Photography 4 units

Prerequisite: Photography 8.

Emphasis on the use of professional equipment: view, press reflex and 35mm. cameras. Application of art principles and photo-graphics to produce pictures of high quality. Introduction to studio management. Three hours lecture and three hours lab weekly.

10 Advanced Photography 4 units

Prerequisite: Photography 8 and 9.

A course for professionally oriented students of photography, with emphasis on concepts of approach and applications. Studio management, and legal aspects for the professional photographer. Three hours lecture and three hours lab weekly.

11-ABCD Publications Photography 2-2-2-2 units

See Journalism 11-ABCD. Credit will not be allowed for both Journalism 11-ABCD and Photography 11-ABCD.

12 Photojournalism 2 units

See Journalism 12. Credit will not be allowed for both Journalism 12 and Photography 12.
## PHYSICAL EDUCATION

Two semesters of physical education are required of all men and women under twenty-one years of age except those in “Completed” (two semesters), “Special” (students registered for less than 9 units), and “Medical” categories. Students who have physical disabilities or health problems which prevent them from participating in physical education activities must have a physical education exemption card signed by a physician on file in the Admissions Office by the end of the first week of the semester.

Students twenty-one or over are encouraged to take physical education activity, or may enroll in Physical Education C-41 (Special Physical Education). All students 21 years of age or over who plan to attend a transfer institution which has a 25-year age requirement should enroll in physical education at Riverside City College.

Students should consult their instructor or the chairperson of the Physical Education Division if problems arise in regard to a physical education activity class.

### Uniforms

Students are requested to wear attire appropriate to the activity.

### Lockers

A lock, locker and towels for which the student is responsible, will be issued to each student. A $2.00 charge will be assessed for a lost lock.

### Intramural Sports

The intramural program for men and women is sponsored by the Division of Physical Education. The program offers students and faculty an opportunity to participate in a recreational activity as regularly as time and interest permit.

Competition is offered in individual and dual activities as well as team sports. These include: badminton, touch football, basketball, bowling, handball, softball, tennis, volleyball, weight training, golf, and racquet ball. As student interest warrants, additional activities will be provided. The Division of Physical Education furnishes the staff, facilities and equipment.

New students, as yet unaffiliated with any group, are cordially invited to participate in all of the activities by registering in the Intramural office.

---

## Academic Courses (Coeducational)

### 27 Introduction to Movement Education for Elementary Children

2 units

Prerequisite: None.

An individualized approach to teaching children to become aware of their physical abilities and to use them effectively in their daily activities involving play, work, and creative expression. One hour lecture and three hours lab weekly.
29 Basic Skin and Scuba Certification 1 unit

Prerequisite: Advanced Swimming. Physical examination using the school SCUBA medical form.

Introduction to skin and scuba diving. Includes a review, study and practice of all the basic life saving techniques; use of fins, face plates, snorkle, air tanks, and regulator, hoses; and the study of diseases relating to diving. Students are responsible for acquiring masks, fins, and snorkels and wet suits for field trips. Students completing the course will qualify for the NAUI and LA County Certificate. There will be a charge payable at registration of $25 for supplies. One hour lecture and three hours lab weekly. (9 week course — 36 hours).

30 First Aid 2 units

Prerequisite: None.

The standard first aid and personal safety course. The course content includes: accident prevention, development of safety attitudes, determination of the nature and extent of injuries, administration of prompt and proper first aid measures, including rescue and transportation. Students completing the course satisfactorily will qualify for the Standard First Aid Certificate. Two hours lecture weekly.

31 Water Safety Instructors Certification Course 3 units

Prerequisite: Advanced Life Saving Certificate.

This course is designed to drill the competent swimmer in life saving and water safety. Upon successful completion of this course, a Water Safety Instructor's Certificate is awarded. This course meets the general physical education requirement. Two hours lecture and three hours lab weekly.

32 Introduction to Physical Education Fall 2 units

Prerequisite: None.

An orientation course on the nature of physical education and the qualifications demanded of physical education teachers. Two hours lecture weekly.

33 Sports Officiating — Fall Sports Fall 2 units

Prerequisite: None.

The mechanics, techniques, and rules of officiating football, basketball, and water polo. Two hours lecture weekly, plus required field work.

34 Sports Officiating — Spring Sports Spring 2 units

Prerequisite: None.

The mechanics, techniques, and rules of officiating wrestling, baseball, and track. Two hours lecture weekly, plus required field work.

35 Introduction to Recreation Fall 2 units

Prerequisite: None.

Introduces to the student the historical and philosophical foundations of leisure and recreation. Two hours lecture weekly, plus required field work.

36 Recreational Leadership 2 units

Prerequisite: None.

Introduces the principles of leadership and organization in recreation, knowledge of human dynamics and leadership abilities and practical experience in supervision and leadership. Two hours lecture weekly, plus required field work.

37 Beginning Skin and Scuba Diving Fall 2 units

Prerequisite: Advanced Swimming. Physical examination using the SCUBA medical form.

Review, study and practice of basic lifesaving techniques; use of fins, face plates, snorkles, air tanks, regulators and hoses; practice in first aid related to scuba accidents; study of diseases related to diving accidents and introductions to various diving programs such as Navy and YMCA programs. There will be a charge payable at registration of $25 for supplies. This course meets the general physical education requirement. One hour lecture and three hours lab weekly.

38 Modern Dance Choreography Based on Ethnic Sources 1 unit

Prerequisite: None.

A coed beginning modern dance class that uses aesthetic and other materials of various cultural and ethnic groups. Three hours lab weekly.

39 Backpacking 3 units

Prerequisite: None.

Survey of backpacking. Where to backpack in summer and winter. Safety; map reading; woodmanship; equipment; ecology. Three hours lecture weekly.

40 Bicycling 3 units

Prerequisite: None. Recommended 10-speed bicycle. Recommended jogging or swimming.
A survey of bicycling: The development of the bicycle, an understanding of aerobic exercises, laws and safety requirements, and understanding of maintenance and repair, the value of the bicycle as it relates to recreation. This course meets the general physical education requirements. Two hours lecture and three hours lab weekly.

41 Practical Ocean Diving, I (Intermediate) 2 units

Prerequisite: Basic Skin and Scuba Certification from NAUI or L.A. County — Pass basic test, including 200 yd. swim, 400 yd. kick with scuba gear, 50 ft. underwater.

Offers the certified diver extensive, well-supervised experience and training in ocean and open water diving beyond the basic SCUBA level. One hour lecture and three hours lab weekly. There will be a $25 charge for supplies payable at registration. This course meets the general P.E. requirements.

44 Principles of Healthful Living 3 units

Prerequisite: None.

Provides the prospective elementary teacher and physical education major with basic physiology and anatomy instruction, as well as scientific health information. Promotes desirable health attitudes and practices. Three hours lecture weekly.

— ACTIVITIES COURSES —

Physical education classes meet three times a week for one hour or twice a week for one and one-half hours. One unit of credit in physical education is given for the three-hour program.

Students 21 years of age and over may enroll in any regular physical education class of their choice. See the instructor if the class is closed. Men and women 21 years of age or older and not desiring the regular routine may enroll in C41, Special Physical Education. Hours will be arranged.

A maximum of four units in physical education activities may be counted toward an associate in arts degree.

All students 21 years of age or over who plan to attend colleges that have a 25-year age requirement should enroll in a physical education activity course at Riverside City College. All activity classes meet P.E. requirements at four-year colleges.

Coeducational Activities:

C-11 — Archery
C-67 — Aqua Exercises
C-6 — Badminton
*C-56 — Badminton, Intermediate

*C-65 — Bicycling, Advanced
C-4 — Bowling
*C-22 — Bowling, Intermediate (130+ av.)
C-12 — Dance, Folk
*C-52 — Dance, Folk, Intermediate
C-13 — Dance, Mexican Folk
*C-59 — Dance, Folk, Performing
C-58 — Dance, Jazz, Beginning
*C-61 — Dance, Jazz, Intermediate
C-18 — Dance, Modern, Beginning
*C-19 — Dance, Modern, Intermediate
*C-17 — Dance, Modern, Intermediate/Advanced
*C-20 — Dance, Modern, Advanced
*C-16 — Dance, Modern, Performing

*Prerequisite: Beginning course or equivalent.

C-8 — Fencing
C-5 — Golf
*C-25 — Golf, Intermediate
C-54 — Gymnastics
C-50 — Handball
C-51 — Jogging
C-62 — Karate
*C-66 — Karate, Intermediate
C-44 — Racquetball
C-41 — Special Physical Education
(21 years of age or over)
C-1 — Swimming, Beginning
*C-2 — Swimming, Intermediate
*C-3 — Swimming, Advanced
C-7 — Tennis
*C-60 — Tennis, Intermediate
C-9 — Volleyball
*C-63 — Volleyball, Advanced
C-14 — Volleyball/Tennis
C-42 — Volleyball/Handball
C-64 — Weight Training
C-55 — Yoga
27 — Introduction to Movement Education
*C-31 — Water Safety Instructors Certification
*C-37 — Beginning Skin and Scuba Diving
PHYSICAL EDUCATION

38 — Modern Dance Choreography Based on Ethnic Sources

*41 — Practical Ocean Diving

Activity Classes Designed for Men (M) and Women (W) but not limited to either sex:

W-15 — Badminton, Advanced
W- 3 — Figure Control
W-11 — Gymnastics
*W-16 — Gymnastics, Intermediate
W- 8 — Team Sports
*W-14 — Tennis, Advanced
*W- 5 — Volleyball, Advanced
M-10 — Baseball Fundamentals, Offensive
M-12 — Baseball Fundamentals, Defensive
M-15 — Football Fundamentals
M-17 — Soccer
M- 8 — Team Sports
M-14 — Track Fundamentals

*Prerequisite: Beginning course or equivalent.

Varsity Sports

Students intending to participate in a fall varsity sport should contact the coach of that sport before enrolling. To establish eligibility, those going out for spring sports should contact the coach of that sport during the first three weeks of the fall term. The varsity sports are:

Women:
V-20 — Basketball-Staff
V-18 — Tennis-Peters
V-21 — Volleyball-Connor

Men:
V- 1 — Cross Country-Heath
V- 2 — Football-Kross
V- 3 — Water Polo-Turner
V- 4 — Basketball-Waxman
V- 5 — Baseball-Lance
V- 6 — Track-Heath
V- 7 — Golf-B. Wilson
V- 8 — Tennis-Bushman
V- 9 — Swimming-Turner
V-10 — Wrestling-Birren
V-11 — Pep Squad-Johnson

A student participating in an intercollegiate sport may substitute it for the regular physical education course during the time he participates. Athletes who leave the squad from varsity sports must enroll in a physical education class immediately. This can be done through the Physical Education Division office.

PHYSICAL SCIENCE

1 Introduction to Physical Science 3 units

Prerequisite: None.

PHYSICS

Fundamental concepts of earth, space and environmental science (geology, oceanography, meteorology, and astronomy) and principles of physics and chemistry especially as they relate to these fields. Emphasis is placed on the application of science in the understanding and solution of environmental problems. Three hours lecture weekly.

A special section of this course will be offered for deaf students.

3 Laboratory in Physical Science 1 unit

Prerequisite: Physical Science 1, or concurrent enrollment.

A series of experiments in physics, chemistry, geology and meteorology designed to give the student a basic understanding of the experimental bases of these sciences. Three hours lecture and three hours lab weekly.

2-A General Physics, I Fall 4 units

Prerequisite: A C grade or better in Mathematics 35 and 36 or equivalent.

Meets the requirements for pre-medical or pre-dental students. Properties of matter, mechanics, heat, fluids, wave motion, and sound are covered the first semester. Three hours lecture and three hours lab weekly.

Credit for this course can also be earned by achieving a score of 3 or better on Category B of the Advanced Placement Test.

2-B General Physics, II Spring 4 units

Prerequisite: Physics 2-A.

Light, electricity and magnetism; introductory nuclear physics are covered. Three hours lecture and three hours lab weekly.

Credit for this course can also be earned by achieving a score of 3 or better on Category B of the Advanced Placement Test.

4-ABCD Physics

Note: Physics 4-ABCD is designed primarily for students who expect to major in physics, engineering, chemistry, mathematics and life sciences.

4-A Mechanics and Sound 4 units

Prerequisite: Mathematics 1-A or concurrent enrollment and high school physics or Physics 2-A.
Elementary mechanics, vectors, motion, particle dynamics, work and energy, conservation of energy and momentum, rotation, oscillations, gravitation, fluid statics and dynamics, wave motion, and acoustical phenomena. Three hours lecture and three hours lab weekly.

Credit for this course can also be earned by achieving a score of 3 or better on Category C of the Advanced Placement Test.

4-B Electricity and Magnetism  Fall  4 units
Prerequisite: Physics 4-A.
Electrostatics, conductors and currents, electric and magnetic fields, electromagnetic induction, Maxwell's equations, waves and oscillations. Three hours lecture and three hours lab weekly.

4-C Heat, Light, and Modern Physics  Spring  4 units
Prerequisite: Physics 4-A.
Heat: temperature, quantity of heat, thermal properties of matter, heat transfer, thermodynamics and heat-engine cycles. Light: reflection, refraction, lenses and aberrations, optical instruments, polarization, interference, diffraction, spectra, and color. Modern Physics: introduction to atomic and nuclear structure and radioactivity. Three hours lecture and three hours lab weekly.

4-D Modern Physics  Spring  4 units
Prerequisite: Physics 4-C or concurrently.
Relativity theory, the old quantum theory, fundamentals of quantum mechanics and basic applications of these theories to atoms and nuclei. Four hours lecture weekly.

10 Introductory General Physics  3 units
Prerequisite: Mathematics 52 or equivalent.
A liberal arts physics course covering mechanics, properties of matter, heat, sound, light, electricity and magnetism and nuclear physics. Three hours lecture weekly.

11 Physics Lab  1 unit
Prerequisite: Physics 10 or concurrent enrollment.
An optional laboratory science course for the non-science major. Emphasis on laboratory techniques, student experimentation, and laboratory demonstrations. Three hours lab weekly.

PSYCHOLOGY

1 General Psychology  3 units
Prerequisite: None.
PSYCHOLOGY

Historical and philosophical antecedents of contemporary psychology; the scientific study of behavior in learning, motivation, emotion, personality, intelligence, and thought. Three hours lecture weekly.

2 Physiological Psychology 3 units
Prerequisite: None.
The study of behavior in relation to the nervous, muscular, and glandular systems, and to the sensory apparatus; included are topics in inheritance, maturation, and deviations. Three hours lecture weekly.

4 Introduction to Experimental Design 3 units
Prerequisite: Psychology 1 or 2.
Experimental designs, the analysis of variables that influence experimental results, and the various methods of data treatment. Two hours lecture and two hours lab weekly.

33 Personal and Social Behavior 3 units
Prerequisite: Psychology 1.

49 Orientation to College 1 unit
Prerequisite: None.
The student's attitudes, habits, motivation, thinking and objectives as they influence his success in college. Effective techniques of listening, reading, learning to concentrate and remember, and preparing for examinations. One hour lecture weekly.

50 Career Planning 1 unit
Prerequisite: None.
Survey of occupational opportunities and requirements for the student who is uncertain about his educational and vocational plans. Lectures, readings, community speakers, discussion, occupational exploration projects. Aptitude and interest tests are included. Two hours lecture weekly for nine weeks.

53 Psychology of Personal Relations 2 units
Prerequisite: None.

A simplified theory of personality and psychodynamics, stressing the nature of personality, criteria of normal and abnormal behavior, motivation, innate and learned mechanisms of adjustment, defense mechanisms, traits and character structure. Emphasis will be placed on acquiring skills in identifying these during group sessions. Two hours lecture weekly.

54 Psychology of Personal Relations for the Deaf 2 units
Prerequisite: Open to deaf students only.
A simplified theory of personality and psychodynamics, stressing the nature of personality, criteria of normal and abnormal behavior, motivation, innate and learned mechanisms of adjustment, defense mechanisms, traits and character structure. Emphasis will be placed on acquiring skills in identifying these as they appear in members of the group during groups sessions. Three hours lecture weekly.

60 Leadership, I Fall 1 unit
Prerequisite: Recommended for student body and club officers. Required for all elected ASRCC officers.
Parliamentary procedure and its application to group situations. One hour lecture weekly.

61 Leadership, II Spring 1 unit
Prerequisite: Psychology 60.
Principles and attitudes necessary for group-centered leadership. One hour lecture weekly.

REAL ESTATE

80 Real Estate Principles 3 units
Prerequisite: None.
The fundamental real estate course covering the basic laws and principles of California real estate, gives understanding, background, and terminology necessary for specialized courses. Assists those preparing for the real estate salesman license examination. Three hours lecture weekly.

81 Real Estate Practice 3 units
Prerequisite: Real Estate 80 or licensure in the real estate field.
Daily operations in real estate brokerage, including listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Applies toward State's educational requirements for the broker's examination. Three hours lecture weekly.
REAL ESTATE

82 Legal Aspects of Real Estate 3 units
Prerequisite: Real Estate 80 or licensure in the real estate field.
California real estate law, including rights incident to property ownership and management, agency, contracts, and application to real estate transfer, conveyance, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of broker's examination. Three hours lecture weekly.

83 Real Estate Finance 3 units
Prerequisite: Real Estate 80 or licensure in the real estate field.
Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, and special purpose properties. Methods of financing properties emphasized. Three hours lecture weekly.

84-A Real Estate Appraisal, I 3 units
Prerequisite: Real Estate 80 or licensure in the real estate field.
Purposes of appraisals, the appraisal process, and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single-unit properties. Three hours lecture weekly.

84-B Real Estate Appraisal, II 3 units
Prerequisite: Real Estate 84-A.
Procedures involved in the evaluation of multiple residential, commercial and industrial properties. Techniques of the income approach to value, including analysis of rental income, property expenses, capitalization methods and capitalization rates as well as analysis of market data. Three hours lecture weekly.

85 Real Estate Economics 3 units
Prerequisite: Real Estate 81, 83.
Trends and factors affecting the value of real estate; the nature and classification of land economics; the development of property, construction and subdivision, economic values and real estate evaluation; real estate cycles and business fluctuations, residential market trends, real and special purpose property trends. Three hours lecture weekly.

SECRETarial science

86 Community Planning (City & Regional) 3 units
Prerequisite: None.
Factors affecting the character of a community: the home owner, land use and economics; the planning department and its relationship to elected officials; the master plan, zoning, and conditional use permits; flood and earthquake areas; traffic circulation, park and school locations; procedures for zoning changes and the politics involved; urban blight and renewal. Three hours lecture weekly.

87 Syndication Formation and Financing 3 units
Prerequisite: None.
The activities of an investor and syndicate manager and information for professional growth for the person already engaged in real estate. Helping the consumer learn how to select, finance and become engaged in real estate syndication. Three hours lecture weekly.

89 Land Title Descriptions 2 units
Prerequisite: None.
The history, interpretation, significance, writing, forms and vocabulary of the more commonly accepted types of legal descriptions used in real estate transactions. Two hours lecture weekly.

50/50-AB Beginning Typewriting 2 units/1-1 unit
Prerequisite: None.
An individualized course in touch typewriting allowing the student to progress at his own pace, and enabling him/her to earn one unit of credit for each of two 9-week modules. Mastery of the keyboard forms, and the typing of manuscripts are introduced. Practice and drill work is designed to build both speed and accuracy.
Instruction will be given on an individualized basis through multi-media equipment with the assistance of an instructor. Maximum of 54 hours of instruction for each module.

51/51-AB Intermediate Typewriting 2 units/1-1 unit
Prerequisite: One year of high school typing or Secretarial Science 50/50-AB.
An individualized course in touch typewriting allowing the student to progress at his own pace, and enabling him to earn one unit of credit for each of two 9-week modules. This course is designed to further develop the student's ability to
SECRETARIAL SCIENCE

Type business letters, business forms, tables, and manuscripts with footnotes.

Instruction will be given on an individualized basis through multi-media equipment with the assistance of an instructor. Maximum of 54 hours of instruction for each module.

52/52-AB Advanced Typewriting 2 units/1-1 unit

Prerequisite: Secretarial Science 51/51-AB or two years of high school typing.

An individualized course in touch typewriting allowing the student to progress at his own pace. One unit of credit is earned for each 9-week module. Includes the typing of business letters, manuscripts, reports, minutes of meetings, legal documents, business forms, and statistical typing. Also includes the preparation of mimeograph stencils, spirit duplicating masters, and the operation of the mimeograph and spirit duplicating machines. Maximum of 54 hours of instruction for each module.

53 Personal Typing 1 unit

Prerequisite: None. Not for the business major.

A one semester course in touch-typewriting which provides skills needed for personal typing. Learning the keyboard is stressed for typing term papers, tabulating, and letter writing. Three hours lab weekly.

60 Business Communications 3 units

Prerequisite: Secretarial Science 50/50-AB or may be taken concurrently.


61 Office Practice 3 units

Prerequisite: Secretarial Science 51/51-AB or equivalent.

Office procedures, including such topics as job application, human relations, grooming, and trends in the changing business world are studied. Practice is provided working with office forms and supplies; postal procedures; machine transcription; telephone techniques; and in various forms of duplicating. Three hours lecture weekly.

62 Filing 3 units

Prerequisite: Secretarial Science 51/51-AB or may be taken concurrently.

Basic procedures covering alphabetical, numerical, geographical and subject filing. Three hours lecture weekly.

63-A Secretarial Accounting, I 3 units

Prerequisite: Not open to students who have completed 1 year of high school bookkeeping with a grade of C or better.

Activities of the general clerical employee — journalizing, posting, trial balance, worksheet, and financial reports. Three hours lecture weekly.

63-B Secretarial Accounting, II 3 units

Prerequisite: Secretarial Science 63-A.

Further activities of the general clerical employee. Contents include special journals, payroll, property records, and depreciation. Three hours lecture weekly.

64 Duplicating 1 unit

Prerequisite: Secretarial Science 51/51-AB or equivalent.

Includes training with a variety of duplicating processes including the operation of spirit duplicating and mimeograph machines, copy machines, IBM executive typewriter and an automatic typewriter. Includes preparation of stencils and masters. One hour lecture and three hours lab weekly for nine weeks.

65-AB Certified Professional Secretary Review 3-3 units

Prerequisite: None.

Prepares secretaries for the Certified Professional Secretaries examination. Provides a general review for all secretaries who wish to brush up on such topics as business law, business administration, secretarial accounting, study techniques, secretarial procedures and human relations. Three hours lecture weekly.

66 Machine Transcription 1 unit

Prerequisite: Secretarial Science 61 or Secretarial Science 51/51-AB and Secretarial Science 60 (Passing of English Skills Prognostic Test will meet Communications requirement).

Covers a review of basic language skills, of typing skills, and the operation of a transcription machine. Provides a marketable skill in machine transcription for students who satisfactorily meet the standards of the class. One hour lecture and three hours lab weekly for nine weeks.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>Specialized Machine Transcription</td>
<td>1</td>
</tr>
</tbody>
</table>
|             | **Prerequisite:** Secretarial Science 66 (Some knowledge of legal and/or medical terminology is desirable.)
|             | Builds upon basic transcription skills attained in a Machine Transcription Course. Transcription from belts will include technical terms and narrative that will be used to type legal and/or medical forms. One hour lecture and three hours lab weekly. |
| 70          | Beginning Shorthand                              | 3     |
|             | **Prerequisite:** None.
|             | A basic course in theory and practice of Gregg Diamond Jubilee shorthand. Concentration on word-building principles and mastery of shorthand theory. Transcription of business letters is introduced. Five hours lab weekly. |
| 71          | Intermediate Shorthand & Transcription           | 3     |
|             | **Prerequisite:** Secretarial Science 70 or 2 years high school shorthand.
|             | Shorthand theory and supplemental skills (grammar, punctuation, spelling, etc.) will be reviewed throughout the course. Students will continue to develop their ability to produce mailable and verbatim transcripts of business letters dictated at not less than 80 words a minute at the end of the semester. Five hours lab weekly. |
| 72          | Advanced Shorthand & Transcription               | 3     |
|             | **Prerequisite:** Secretarial Science 71 or 2 years high school shorthand.
|             | Taking dictation for and transcription of shorthand of letters dictated at not less than 80 words a minute and verbatim business letters dictated at not less than 100 words a minute. Development of vocabulary, production of mailable letters, and development of speed in taking dictation and in transcribing business letters, articles, minutes of meetings and other business communications. Five hours lab weekly. |
| 73          | Specialized Shorthand Transcription Spring       | 3     |
|             | **Prerequisite:** Secretarial Science 72 and English 50-A or 1-A. The English courses may be taken concurrently.
|             | Designed to develop a writing speed twenty words above the student's entering rate. Medical, legal, and scientific vocabularies are offered. Standard business letter dictation is also given to retain previously developed skills. Five hours lab weekly. |
SECRETARIAL SCIENCE

80-A Beginning Touch Shorthand (Stenotype) 3 units
Prerequisite: English 50-A or I-A. The English course may be taken concurrently.
Introduction of Stenotype keyboard and theory, including phonetics, punctuation, abbreviations, phrasing, and speed building. Concentration on mastery of Stenotype theory. Five hours lab weekly.

80-B Intermediate Touch Shorthand (Stenotype) 3 units
Prerequisite: Secretarial Science 80-A.
Dictation for touch shorthand at speeds ranging from 60 w.p.m. to 140 w.p.m. Concentration on mailable and verbatim transcription of business letters. Presentation of difficult dictation in specialized fields of business activity. Five hours lab weekly.

80-C Advanced Touch Shorthand (Stenotype) Spring 3 units
Prerequisite: Take dictation at 80 words per minute on the machine.
Dictation for touch shorthand at speeds ranging from 100 to 150 w.p.m. Five hours lab weekly.

90-ABCD Secretarial Work Experience 1-2-3-4 units
Prerequisite: Student must be enrolled concurrently in eight units and in a major related to the course.
This class is designed to coordinate the student’s on-the-job training with related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences per week.

SOCIOLOGY

1 Introduction to Sociology 3 units
Prerequisite: None.
Basic concepts and theories relating to the study of man as a participant in group life; analysis of culture, social institutions, personality development, collective behavior, and processes of social interaction. Some sections offered with individualized instruction. Three hours lecture weekly.

2 American Social Problems 3 units
Prerequisite: None.
Identification and analysis of major social problems confronting 20th century America; emphasizing, among other topics, urban and rural transformations; family life; minorities; criminal and delinquent behavior. Three hours lecture weekly.

10 Survey of Ethnic Group Interaction 3 units
Prerequisite: None. Qualifying reading test scores recommended.
Major "unassimilated" American ethnic, racial and religious groups from the pre-Columbian Period to the present. Chronologic survey of selected groups, traces their origin and explores their culture, history and group experience in this country. Three hours lecture weekly.

12 Marriage and Family Relations 3 units
Prerequisite: None.
Patterns in marriage and family relations focusing on both academic and practical considerations. Includes courtship, marriage, child-parent relations, intra-family conflict, and sexual adjustment. Three hours lecture weekly.

15 Women in American Society 3 units
Prerequisite: None.
The role of American women emphasizing the social implications of the women’s movement and including the historical, political and economic roots of women’s problems. Three hours lecture weekly.

31 Field Work in the Barrio 3 units
Prerequisite: Completion of, or concurrent enrollment in, Sociology 2, Political Science 1, or History 30 or 31.
A laboratory course providing the student with a community-oriented research experience. It emphasizes both problem identification and solving. The specific orientation of the research will depend upon which courses are taken in conjunction with this one. Two hours lecture and three hours lab weekly.

35 Sociology of the Black Community 3 units
Prerequisite: None.
Identification and analysis of the sociology of Black people in today’s society. Three hours lecture weekly.

45 Childhood and Culture 3 units
Prerequisite: None.
SOCIOLOGY

How the culture in which a child is reared affects his growth, behavior, and personality; his motivations, goals, chances in life, problems and methods of attacking them, and his probabilities of success. Recommended for parents and child-service workers, but especially designed for those who plan to seek employment as instructional assistants, or to volunteer in the elementary schools. Three hours lecture weekly.

50-ABCD  Community Services Work Experience  1-2-3-4 units

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

This class is designed to coordinate the student’s on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences weekly.

51-ABCD  Afterclass Staff-Work Experience with the Deaf  1-2-3-4 units

Prerequisite: Sufficient knowledge of manual communication.

This class is designed to coordinate the student’s on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences per week.

60  The Deaf Man and His World  3 units

Prerequisite: None.

A general descriptive course to explain who the deaf are and the implications of deafness on language development, education, psychosocial development and vocational opportunities. Three hours lecture weekly plus required field trips.

70  Evolution of Volunteerism  1 unit

Prerequisite: None.


71  Structural Patterns of Volunteer Organizations  1 unit

Prerequisite: None.

72  Administrative Requirements for Volunteer Management  1 unit

Prerequisite: None.

A study of the basic concepts of directing Volunteer Services. Defines management functions, inter-personal relations with the volunteer staff, the client and the community. Reviews ethical and legal aspects as criteria for appropriate services and includes means of utilizing available resources. Three hours lecture weekly for six weeks.

73  Volunteerism and the Community  1 unit

Prerequisite: None.

A study of the human service needs of the community, how they are enhanced, and the role of voluntary systems. Functions and dysfunctions will be covered as well as gaps and duplications. Ways in which volunteers can meet needs will be covered thoroughly. Eighteen hours lecture.

74  Goals and Objectives for Volunteer Organizations  1 unit

Prerequisite: None.

A study of practical methods of analysis and developments of goals and objectives for individual volunteer programs. It will include practice in force field analysis, time management, interagency collaboration and financing. Eighteen hours lecture.

75  Public Relations for Volunteer Agencies  1 unit

Prerequisite: None.

A study of team building between staff, volunteers and clients in order to enhance effectiveness of an agency volunteer program. The role of the volunteer in change efforts will be analyzed, especially in regard to risk taking, knowledge gathering, and influence. The use of the media as an integral part of public relations will be explored. Eighteen hours lecture.

76  Volunteers: Recruitment and Training  1 unit

Prerequisite: None.
A study of the mechanics of volunteer recruitment. The course will analyze the ingredients of an orientation and training program. Fundamentals of interviewing and placement techniques will be examined. An analysis will be made of institutional needs and how they can be filled by volunteer staff, how volunteers interact with paid staff, and how to set specific goals and objectives for the volunteer program. Eighteen hours lecture.

77 Retention of Volunteers  1 unit
Prerequisite: None.
An emphasis upon the differences and similarities in supervising volunteers and paid staff. Study will be undertaken of the fundamentals of motivation, how to plan and run effective meetings of all kinds, establishing an awards and recognition program for volunteers, effective record keeping for the volunteer program, and program evaluation. Eighteen hours lecture.

78 The Individual and Volunteer Organizations  1 unit
Prerequisite: None.
An examination of personal and social interaction in volunteer groups and organizations. Considers the individual in relation to his or her own personal growth, leadership style and interpersonal relations in the context of groups and organizations. Eighteen hours lecture.

79 Group Processes and Volunteer Organizations  1 unit
Prerequisite: None.
An examination of the nature of groups and the group process. Considers roles and skills involved in volunteer groups participation and leadership. Eighteen hours lecture.

80 Interpersonal Relations in Volunteer Organizations  1 unit
Prerequisite: None.
An introduction to the process of volunteer organizational change, with emphasis on planned change. Considers the dynamics of change, and the relationship of change to the individual, groups and organizations. Examines goals and strategies of social change. Eighteen hours lecture.

SPANISH
1 Spanish, 1  4 units
Prerequisite: None.
Essentials of Spanish grammar with initial emphasis on phonetics, pronunciation, dictation, reading and writing.
**SPEECH**

An introductory course in Spanish conversation emphasizing pronunciation, speaking and comprehension. The objective is communication with Spanish speaking people, and a letter understanding of their culture. Four hours lecture weekly. An additional one-hour period for lab is required weekly.

**SPEECH**

1 Public Speaking 3 units

Prerequisite: Qualifying test scores or Speech 51 with a grade of B or higher.
Persuasive, expository, extemporaneous, and impromptu speaking, discussion techniques with rhetorical principles applied to each area; some writing required. Three hours lecture weekly.

2 Persuasion in Rhetorical Perspective 3 units

Prerequisite: Speech 1.
The development of persuasion in rhetorical perspective with emphasis on the understanding and use of logic in public speaking. Three hours lecture weekly.

3-AB Argumentation and Debate 3-3 units

Prerequisite: Speech 1.
Speech 3-A covers a study of research, analysis, core construction, speech composition and rebuttal techniques. Emphasis on debate and theory of argumentation. Three hours lecture weekly.

3-B is designed to train students in logical thinking and effective presentation. Serves as a training ground for intercollegiate forensic contests, but participation in such events is optional. Three hours lecture weekly.

4-AB The Psychology of Argumentation 3-3 units

Prerequisite: Speech 3-AB.
Comprehensive format of the pertinent factors in developing argumentation on the second year level. Particular emphasis applied to the psychological factors of persuasion through argumentation. Consistent reference made to underlying rhetorical theory and critique. Will be offered concurrently with Speech 3-AB. Three hours lecture weekly.

5 The Deliberative Process Fall 3 units

Prerequisite: None.
234

**STRUCTURAL INSPECTION**

Principles of cost estimating, using standard methods of making a material take off and apply current cost data to develop a cost estimate. Three hours lecture weekly.

63 Uniform Building Code and Ordinances  
**Fall 3 units**

Prerequisite: Structural Inspection 61, 62 or equivalent.

Use of the Uniform Building Code and the various related state and local ordinances in plan checking various building types for compliance with the codes and ordinances. Three hours lecture weekly.

64 Office Procedure and Field Inspection  
**Spring 3 units**

Prerequisite: Structural Inspection 61, 62, 63 or equivalent.

Office organization, procedures and necessary paper work pertinent to building and safety office management and inspection. Field inspection for completed buildings, zoning, health and safety ordinance application. Several field trips. Three hours lecture weekly.

65 Mechanical, Plumbing and Electrical Inspection  
**3 units**

Prerequisite: Employment in field or previous structural inspection classes.

Review of mechanical, plumbing and electrical codes including discussion and analysis of the application of physical laws in development of the code requirements. Three hours lecture weekly.

70 Fundamentals of Soil Technology  
**3 units**

Prerequisite: None.

Field inspection and testing of soils and rock for grading and building contractors. A systematic approach to soil classification, strength, compressibility and expansive characteristic is covered. Methods of observation and foundation types are considered in detail. A survey of engineering analysis is made. Three hours lecture weekly.

75 Technology of Portland Cement Concrete and Asphalt  
**3 units**

Prerequisite: None.

Provides the basic principles of the technology of portland cement, concrete and asphalt construction. Covers portland cement, aggregates, admixtures, and bituminous materials; proportioning mixtures; foundations, subgrades and formwork; handling, placing, spreading, compacting, and finishing of concrete and asphalt mixtures in all appropriate application for each. Three hours lecture weekly.

789

---

SUPERVISORY TRAINING

51 Elements of Supervision  
**3 units**

Prerequisite: None.

Covers in general terms the total responsibilities of a supervisor in industry, such as organization, duties and responsibilities, human relations, grievances, training, rating, quality-quantity control and management-employee relations. Three hours lecture weekly.

52 Basic Psychology for Supervisors  
**3 units**

Prerequisite: None.

Assists the supervisor in understanding the people with whom he works, with emphasis on the psychological aspects, perceptions, learning processes, emotions, attitudes and personalities. Three hours lecture weekly.

53 Human Relations  
**3 units**

Prerequisite: None. Sup. Tr. 52 is recommended.

Practical application of basic psychology in building better employer-employee relationships by studying human relation techniques. Three hours lecture weekly.

54 Labor-Management Relations  
**3 units**

Prerequisite: None. Sup. Tr. 51 is recommended.

History and development of the labor movement. Development and effects of federal and state labor legislation upon labor-management relations in both private and public sectors. Collective bargaining, the union contract, and the grievance procedure. The supervisor's responsibility for good labor-management relations. Three hours lecture weekly.

55 Organization & Management  
**Fall 3 units**

Prerequisite: None. Sup. Tr. 51 is recommended.

The basic functions of management, emphasizing the supervisor's responsibility for planning, organizing, controlling, directing, and motivating. Three hours lecture weekly.
SUPERVISORY TRAINING

56 Supervisor's Responsibility for Personnel Management  3 units

Prerequisite: None. Sup. Tr. 51, 52, 53 recommended.
The supervisor's responsibility for implementing personnel techniques involving the selection, training, evaluation, motivation and promotion of subordinates. The consideration of alternatives leading to innovative and socially responsible solutions to current personnel problems. Three hours lecture weekly.

57 Oral Communication for Supervisors  3 units

Prerequisite: None.
Class participation in both planned and extemporaneous self-expression. Planning and leadership for formal organizational meetings and informal conferences. Three hours lecture weekly.

58 Industrial Economics  Fall  3 units

Prerequisite: None.
Development of a critical attitude toward industrial economics. Institutions and practices that determine our social environment. Management-supervisor-employee relationships to economy and local industry. Three hours lecture weekly.

59 Written Communications for Supervisors  Spring  3 units

Prerequisite: None.

60 Cost Control for Supervisors  Fall  3 units

Prerequisite: None. Sup. Tr. 51 recommended.
An introduction to cost control practices, costing and pricing methods, accounting and reporting techniques, and motivation for cost reduction. Special emphasis will be given to profit improvement, break-even analysis, profit and loss statements, overtime deterioration, material costs, work simplification, labor turnover, and work measurement. Three hours lecture weekly.

99-ABCD Work Experience  1-2-3-4 units

Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.

SURVEYING TECHNOLOGY

This class is designed to assist the student in Supervisory Training and the individualize the employment and employment related activities to his classroom instruction. One hour lecture/discussion plus five to twenty hours employment per week.

Also see — MIDDLE MANAGEMENT, pages 188 ff

SURVEYING TECHNOLOGY

50 Surveying Techniques  4 units

Prerequisite: High school graduate, or G.E.D., with working knowledge of algebra and geometry.
Surveying terms, maintenance of tools and equipment, measurement of horizontal distances, field communication, and basic drafting as used in the trade. Three hours lecture and three hours lab weekly.

51 Surveying Mathematics  4 units

Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra and geometry.
Trigonometric functions, logarithms, solution of right triangles, traverse and coordinate calculations, and elements of a circular curve as applied to surveying. Three hours lecture and three hours lab weekly.

52 Surveying Practices  4 units

Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra, geometry and trigonometry.
Introduction to surveying accuracy requirements, corrections to taped measurements, leveling, basic theory of errors, survey sights and signals. Three hours lecture and three hours lab weekly.

53 Highway Curves Surveying  4 units

Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra, geometry and trigonometry.
The study and application of circular curves, vertical and spiral curves, and referencing survey points. Three hours lecture and three hours lab weekly.

54 Traverse Surveying  4 units

Prerequisites: High school graduate, or G.E.D. with working knowledge of algebra, geometry, and trigonometry.
Principles of traverse surveys, electronic surveys, hydrographic surveys and researching for survey data. Three hours lecture and three hours lab weekly.
THEATER ARTS

55 Map Surveying 4 units
Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra, geometry and trigonometry.
Use and principles of stadia measurement, including topographic, photogrammetric, and architectural surveys. Three hours lecture and three hours lab weekly.

56 Land Surveying 4 units
Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra, geometry and trigonometry.
Practical astronomy, construction and property surveys, and laws affecting the surveyor. Three hours lecture and three hours lab weekly.

57 Control Surveying 4 units
Prerequisite: High school graduate, or G.E.D. with working knowledge of algebra, geometry and trigonometry.
Principles of U.S. Public Land surveys, triangulation, and state plan coordinate systems. Three hours lecture and three hours lab weekly.

99-ABCD Work Experience 1-2-3-4 units
Prerequisite: Must be a California indentured survey apprentice under the Shelley-Maloney Act of the State of California, or must be a survey civil service employee, or employed in a related field to surveying, and must be concurrently enrolled in academic related classes.
Field training with approved licensed land surveyors and/or civil engineers. The training provides a variety of experiences coordinated by college staff members, Southern California Surveyor Joint Apprenticeship Committee and public services agencies. May be taken for four semesters. One hour lecture-discussion plus five to twenty hours employment experience per week.

THEATER ARTS

3 Introduction to the Theater 3 units
Prerequisite: None.
A survey of the theater, with units in directing, acting, designing and lighting. A non-technical course for the general student leading to the appreciation and understanding of

A Poignant Scene from “Beckett”
THEATER ARTS

the theater as a medium of communication and entertain-
ment and as an art form. Three hours lecture weekly.

7 Oral Interpretation, I Fall 3 units

Prerequisite: None.
Training in oral reading with emphasis on voice production,
pronunciation and vocabulary. Three hours lecture weekly.

8 Oral Interpretation, II 3 units

Prerequisite: Theater Arts 7.
Performance training in oral reading of prose, poetry and
drama. Practice in analysis for communication with train-
ing in principles for effective delivery. Three hours lecture
weekly.

10 Principles and Theory of Acting, I 3 units

Prerequisite: None.
Stage techniques, characterization, interpretation. Re-
quired public performance. Two hours lecture and three
hours of lab weekly.

11 Principles and Theory of Acting, II 3 units

Prerequisite: Theater Arts 10.
Continuation of Theater Arts 10. Includes play analysis, in-
terpretation, movement, voice and diction for the stage. Re-
quired public performance. Two hours lecture and three
hours lab weekly.

13 History of the Theater, I 3 units

Prerequisite: None.
A comprehensive and chronological history of the theater. Each era from ancient Egypt through the 18th century will be covered through outstanding plays of the period. Type, style, design of the literature and the physical theater will be studied. Three hours lecture weekly.

14 History of the Theater, II 3 units

Prerequisite: None.
A comprehensive and chronological history of the modern theater from the beginning of the 19th century to the present. Type, style, design of the literature and the physical theater will be studied. Three hours lecture weekly.

15 Children's Theater for Teachers 3 units

Prerequisite: None.
Designed for those who are or will be teaching. Creative drama, formalized drama and their application to teaching will be covered. Three hours lecture weekly.

17 Directing 3 units

Prerequisite: Theater Arts 10.
The emphasis in the course will be on the functions of the director in analyzing plays, organization of productions, the development of a group plan, planning movement and blocking. Class projects and the preparation of a complete prompt book are required. Three hours lecture weekly.

19 Reader's Theater 3 units

Prerequisite: None.
A study of basic concepts of Reader's Theater, preparation of scripts, staging and experience in preparation and performance of plays and other forms of literature suitable to this method of presentation. Three hours lecture weekly.

25-ABCD Experimental Theater 2-2-2-2 units

Prerequisite: None.
Application of acting, directing, and production techniques, including presentations for class and public audiences. Students will be responsible for the acting, directing, and producing. One hour lecture and three hours lab weekly.

26 Costume Styles & Makeup fundamentals 3 units

Prerequisite: None.
A study of basic techniques in period and modern costume design and makeup fundamentals. The relationship of costume and makeup skills to the total stage production is emphasized. Three hours lecture weekly.

27 Stage & Lighting Design 3 units

Prerequisite: None.
A basic approach to designing and lighting productions for college, school and community theaters. Concepts in lighting theory and scenic staging will be examined. Three hours lecture weekly.
THEATER ARTS

28-ABCD Rehearsals and Performance 1-1-1-1 unit
Courses will be taken in alphabetical sequence, beginning with A semester, no matter in which semester enrollment begins.
Prerequisite: None.
Supervised acting in performance of college sponsored drama productions; experience in all activities related to theater presentations. Student is committed for a minimum of 6 hours per week for 9 weeks. Auditions held first week of each semester.
A special section of this course will be offered for deaf students.

29-ABCD Stagecraft 2-2-2-2 units
Courses will be taken in alphabetical sequence, beginning with A semester, no matter in which semester enrollment begins.
Prerequisite: None.
Theory of stage design, set construction, stage lighting; practical work in connection with dramatic or operative productions. One hour lecture and three hours lab weekly.

30-ABCD Play Production 2-2-2-2 units
Courses will be taken in alphabetical sequence, beginning with A semester, no matter in which semester enrollment begins.
Prerequisite: None.
Participation in stage productions and backstage management. One hour lecture and three hour lab to be arranged.

31-AB Summer Theater Workshop Summer 3-3 units
Prerequisite: College standing or advanced college placement.
Participation in performance and production of major plays. Acting, directing, lighting, set designing, and all other phases of dramatic art. The course offers the practical application of theory to dramatic production. One hour lecture and three hours lab daily for six weeks.

WELDING

15-AB Introduction to Basic Arc Welding 2-2 units
Prerequisite: None for 15-A; 15-A for 15-B.
An introductory course in basic arc welding, shop and industrial safety, and common metal and materials used in welding. One hour lecture and three hours lab weekly.

25-AB Introduction to Oxyacetylene Welding 2-2 units
Prerequisite: None for 25-B. 25-A required for 25-B.
An introductory course in basic oxyacetylene welding, shop and industrial safety, and common metals and materials used in welding. One hour lecture and three hours lab weekly.

55-AB Introduction to Basic Inert Gas Welding 2-2 units
Prerequisite: Welding 25-AB or trade experience.
An introductory course in basic TIG, tungsten inert gas and MIG, metalized inert gas, Heli-Arc welding, shop and industrial safety and common materials used in welding. One hour lecture and three hours lab weekly.

60-AB Advanced Welding Laboratory 2-2 units
Prerequisite: 6 units in welding or trade experience.
A course for the competent welder designed to advance his knowledge of welding and related fields. Research is performed with respect to destructive and non-destructive testing, effects of variable factors on weldments, and the weldability of ferrous and non-ferrous alloys. Six hours lab weekly.

70-ABCD Work Experience 1-2-3-4 units
Prerequisite: Students must be enrolled concurrently in eight units and in a major related to the course.
This class is designed to coordinate the student’s on-the-job training with the related occupational classroom instruction. One hour lecture-discussion plus five to twenty hours employment experiences per week.

WORK EXPERIENCE

55-AB General Work Experience 3-3 units
Prerequisite: None. Students required to complete ten hours per week of paid or volunteer experience.
This course allows the student to experience the world of work and its relation to education. Not open to students in those occupational educational programs where similar courses are offered. Two units are given for a minimum of ten hours of on-the-job related experiences per week. Instruction and special assignments related to the student’s employment experience will be presented in one hour lecture weekly.
Acknowledging that the quality of an instructional program is dependent largely upon the quality of the faculty, Riverside City College endeavors to maintain a teaching staff which is among the finest in California.

ABRAHAM, JANICE EVA  Assistant Professor of Journalism  A.A., Mt. Vernon (Illinois) Community College; B.J., University of Missouri; M.A., University of California, Los Angeles. At Riverside City College since 1971.


AMRICH, MICHAEL, JR.  Assistant Professor of Chemistry  B.A., University of California, Riverside; M.A., University of Texas, Austin; Ph.D., University of California, Riverside. At Riverside City College since 1970.

ANDRUS, RICHARD  Associate Professor, Counseling  B.A., California State University, Long Beach; M.S.; Brigham Young University; graduate study, University of Oregon, University of Southern California, and California State University, Los Angeles. At Riverside City College since 1962.

ARDIS, JULE H.  Associate Professor of Sociology, Philosophy  B.A., M.A., California State College, Long Beach. At Riverside City College since 1967.

ARTERBERRY, STAN  Instructor in Sociology and History  A.A., Imperial Valley College; B.A., Whittier College; M.A., Atlanta University. At Riverside City College since 1974.

ARTHUR, DONALD B.  Associate Professor of English  A.A., La Salle-Peru-Oglesby Junior College; B.Mus., M.Mus.Ed., VanderCook College of Music; graduate study at Illinois Wesleyan University, University of Illinois, Northern Illinois University, and Illinois State Normal University. At Riverside City College since 1962.

ATTRIDE, HILDA BENJAMIN (Mrs)  Associate Professor of English  B.S., Ed., George Southern College; M.S., Mercer University; graduate study at U.C.R. At Riverside City College since 1962.
BADER, DUAIN E. Assistant Professor of Welding Technology
Community college instructor's credential, University of California, Los Angeles. Attended Instructor Training, Chanute A.F.B. At Riverside City College since Spring, 1972.

BAILEY, JO ANN Associate Professor of Library Science.
B.S., University of Texas; M.A., University of Denver; graduate study at University of Redlands, University of Southern California and California State University, Long Beach. At Riverside City College since 1964.

BAILOR, KEITH M. Associate Professor of History;
A.B., Wheaton College; M.Div., Fuller Theological Seminary; M.A. and doctoral residency, University of California, Riverside. At Riverside City College since 1965.

BALDWIN, WILLIAM Assistant Professor of Graphic Arts;
A.A., Pasadena City College. Standard designated subjects teaching and community college instructor credentials; studied at University of California at Los Angeles and Riverside. At Riverside City College since 1969.

BARRICELLI, NORMA (Mrs.) Associate Professor of English
B.A. (Cum Laude), Radcliffe College; A.M.T., Harvard University; graduate study at University of Florence, Italy. At Riverside City College since 1964.

BAYLOR, JAMES G. Instructor in Business
B.S., Arizona State University; B.S., University of Southern California; M.B.A., University of Southern California, Arizona State University, San Francisco State, and U.C.L.A. At Riverside City College since 1974.

BELTZ, MARTHA L. Assistant Professor of Nursing
Diploma in Nursing, St. Louis City Hospital School of Nursing; B.S. in Public Health Nursing, St. Louis University; M.S.N., St. Louis University. At Riverside City College since 1969.

BENEDICT, HENRY Z. Associate Professor, Counseling
B.A., University of Denver; M.S., University of Southern California; graduate study at University of Redlands, University of California, Riverside, and Colorado State University. At Riverside City College since 1965.

BERENS, THOMAS Assistant Professor, Counseling
B.Ed., M. Ed., Wisconsin State University; graduate study at Arizona State University and University of California, Riverside. At Riverside City College since 1970.

BEVAN, RICHARD B. Assistant Professor of Dental Technology
Dental technology training, U.S. Navy. Teacher training, University of California at Los Angeles. Certified Dental Technician. At Riverside City College since 1970.

BIEHL, JOHN Assistant Professor of Biology and Health Science
B.A., M.A., University of California at Santa Barbara; graduate study at University of California, Riverside. At Riverside City College since 1971.

BIGBEE, ELIZABETH (Mrs.) Assistant Professor of Library Science;
Chairperson, Library Division
A.A., Reedley College; B.A., California State University, San Francisco; M.A., Immaculate Heart College; graduate study at University of Southern California. At Riverside City College since 1965.

BIRREN, DONALD A. Associate Professor of Physical Education
B.S., University of California, Los Angeles; M.A., Azusa Pacific College; graduate study at University of Southern California; California State University, Long Beach, Chapman College, Pepperdine College, and University of Nevada. At Riverside City College since 1960.

BLAKER, WILLIAM Associate Professor of History
B.A., University of California, Santa Barbara; M.A., California State University, Los Angeles; graduate study at University of California, Los Angeles and Riverside. At Riverside City College since 1963.

BLANCHARD, JOHN B. Associate Professor of Spanish
B.A., McGill University; attended University of Buenos Aires; M.A., Middlebury College and University of Madrid; graduate study at Amherst College, Lafayette College, Georgetown University, University of California, Los Angeles and Riverside, University of Guadalajara and University of Madrid. At Riverside City College since 1960.

BLANCHARD, ROBERT E. Assistant Professor of Administration of Justice
A.A., Los Angeles City College; B.S. California State University, Los Angeles; M.S., California State University, Long Beach. Class A teaching credential at University of California, Los Angeles. At Riverside City College since 1968.

BOND, DOUGLAS Assistant Professor of Chemistry
B.S., University of Washington; Ph.D., University of California, Los Angeles. At Riverside City College since 1971.

BORELLA, PETER E. Assistant Professor of Geology and Oceanography
B.A., University of Bridgeport, Connecticut; M.S., The George Washington University; Ph.D., University of Southern California. At Riverside City College since 1971.
BOWERS, WILLIAM J.  
Associate Professor of English and Journalism  
A.A., Long Beach City College; B.A., California State University, Long Beach; M.A., California State University, Fullerton. At Riverside City College since 1965.

BOYKO, RAYMOND J.  
Assistant Professor of Art  
B.F.A., Rhode Island School of Design; M.A., Claremont Graduate School; Graduate study at Claremont Graduate School. At Riverside City College since 1970.

BRADSHAW, RALPH H.  
Associate Professor of English  
B.A., M.A., Washington University (St. Louis); Ph.D., Claremont Graduate School. At Riverside City College since 1946.

BROSE, FRIEDRICH K.  
Assistant Professor of Library Science  
German Academy of Political Science/Free University, West Berlin; B.A., Australian National University; Dip. Lib., University of New South Wales; M.L.S., McGill University, Montreal; M.A., California State University, San Diego. At Riverside City College since 1970.

BROWN, C. KENNETH  
Assistant Professor Registrar  
B.A., University of California, Santa Barbara; M.A., University of Redlands; Ed.D., University of California, Los Angeles. Graduate study, University of Colorado and California State University, San Francisco. At Riverside City College since 1971.

BUDD, FRANK W.  
Director, Administration of Justice  
Instructor in Administration of Justice  
B.A., University of Redlands; M.S., Brigham Young University. Graduate work at Western State University College of Law. At Riverside City College since spring, 1974.

BURCHELL, RICHARD T.  
Assistant Professor of Electronics  

BURTON, HOWARD A.  
Associate Professor of English and History  
B.A. with honors in English, Howard College; M.A., University of Virginia; Ph.D., University of California, Berkeley. Additional study at the University of London, the British Film Institute and the University of California, Riverside. At Riverside City College since 1956.

BURTON, RONALD  
Assistant Professor of English  

BUSHMAN, FRANCIS X.  
Associate Professor, Counseling, Tennis Coach  
A.A., Riverside City College; B.A., University of California at Santa Barbara; M.A., University of Southern California; graduate study at Redlands University, and University of California, Riverside. At Riverside City College since 1966.

BUTTERFIELD, RALPH.  
Associate Professor of Art  
A.A., Pasadena City College; B.Ed., University of California, Los Angeles; M.A., Claremont Graduate School; graduate study at University of Southern California. At Riverside City College since 1965.

CARLSON, H. DEAN  
Associate Professor of Business  
B.S., Valley City (N.D.) State Teachers College; M.A., University of North Dakota; graduate study at University of California, Riverside and Berkeley. At Riverside City College since 1962.

CARTER, JERRY L.  
Assistant Professor of Air Conditioning and Refrigeration Technology  

CARY, THELMA HAYES (Mrs.)  
Associate Professor of Nursing  
B.S.N., Dillard University; M.P.H., University of Michigan. At Riverside City College since 1964.

CHAFFINS, FRANCES (Mrs.)  
Associate, Professor, Counseling  
B.A., Berea College; M.A., University of Redlands; graduate study at University of California, Los Angeles. At Riverside City College since 1963.

CHAMBERS, DEAN A.  
Assistant Professor of Business  
B.S., University of Utah; B.A., California State University, Fullerton; graduate study, University of California, Riverside. At Riverside City College since 1970.

CHAMBERS, THOMAS  
Assistant Professor of Political Science  
B.S., University of Oregon; (Summa Cum Laude) M.A., Harvard University; Ph.D., University of Oregon. At Riverside City College since 1972.

CHASTEEN, JO ANN (Mrs.)  
Instructor in Nursing  
B.S.N., Hamline University; M.N., Emory University. At Riverside City College since 1972.

CHOTRO, DON  
Assistant Professor of English  
A.A., Riverside City College; B.A. (with honors), M.A., California State University, Fullerton. At Riverside City College since 1970.
CLARK, MICHAEL STAMATIOS  Assistant Professor of English and Speech

COLANGELO, MARGARET F. (Mrs.) Associate Professor of Nursing
B.A., Gettysburg College, Diploma in Nursing, The John Hopkins Hospital School of Nursing; M.S., University of California, Los Angeles; graduate study at University of Pennsylvania. At Riverside City College since 1959.

COMPLIN, MARMION B. (Mrs.) Assistant Professor of Data Processing

CORONA, FRANK Associate Professor of Spanish
B.S., University of California, Berkeley; M.A., Redlands University; graduate study at Redlands University, San Gabriel Graduate School, University of California, Riverside, University of Mexico, University of Guadalajara and California State College, San Bernardino. At Riverside City College since 1969.

CRESGY, LOIS O. (Ms.) Assistant Professor of Physical Education
A.B., M.A., California State University, San Jose. At Riverside City College since 1970.

CULBREATH, KATHERINE Assistant Professor of Cosmetology
Certificate from Reading Beauty College, England; four-year apprenticeship, Mobile, Alabama; advanced work, Richards Beauty College, San Bernardino; teacher training, Marinello Comer, Los Angeles, and at the University of California, Los Angeles, Vocational Division. At Riverside City College since 1973.

DAVIDOFF, FOSTER Superintendent/President
Associate Professor of English
B.A., M.A., California State University, Fresno; graduate study at the University of Southern California and the University of California, Los Angeles. At Riverside City College since 1974.

DAVIES, BRENSA Director, Nursing and Instructor in Nursing
Diploma, Harlem Hospital Center School of Nursing, New York; B.S. and M.Ed., Teachers College, Columbia University, N.Y.; Certified Doctoral Candidate at Teachers College, Columbia University. At Riverside City College since 1975.

DAY, BETTY Associate Professor of English
A.A., Riverside City College; B.A., University of California, Riverside; M.A., California State University, Fullerton. At Riverside City College since 1965.

De FRANCISCO, NATHAN Associate Professor of Physical Education
B.A., M.S., University of California, Los Angeles; graduate study at University of California, Los Angeles; Claremont Graduate School, and University of Redlands. At Riverside City College since 1950.

DENHAM, PHILIP R. Associate Professor of Engineering and Mathematics
B.S., M.S., University of Colorado; graduate study at Colorado Mines and Technology, and Claremont Graduate School. At Riverside City College since 1956.

DESPINS, TAIKO Instructor of Business
B.S., Pacific Union College; M.A., Loma Linda University; graduate study University of California, Los Angeles. At Riverside City College since Spring, 1974.

DIETRICH, ARTHUR B. Associate Professor of Automotive Technology
Ph.B., University of Wisconsin; B.S., M.S., Stout State University, Wisconsin. At Riverside City College since 1964.

DILLON, JAMES Assistant Professor of Administration of Justice
A.A., El Camino College; B.A., California State University, Long Beach; graduate study California State College, Fullerton, Western State University, College of Law, and Citrus Belt Law School. At Riverside City College since 1971.

DIXON, ROBERT T. Associate Professor of Astronomy, Planetarium Director
B.S. (cum laude), Seattle College; M.S., University of Wisconsin; graduate study at University of California, Los Angeles, and University of Southern California. At Riverside City College since 1964.

DOHR, ROBERT Associate Professor of Physical Education
Assistant Football Coach
B.S., Wisconsin State University; M.S., University of Wisconsin; graduate study at University of Redlands, Pepperdine College, California State University, Los Angeles; La Verne College, California Lutheran College, and University of California, Riverside. At Riverside City College since 1957.

DONALDSON, MARIE M. (Mrs.) Associate Professor of Nursing
Diploma in Nursing, Thomas D. Dee Memorial Hospital School of Nursing (Ogden, Utah); B.S., University of Utah; M.A., Stanford
University. Life special secondary and standard designated subjects credentials, University of California, Los Angeles, June 1971.

DOOLEY, JO ELLEN (Mrs.) Assistant Professor of Library Science
B.A., University of Oregon; M.A., University of Denver. Postgraduate study at University of Denver; University of California, Riverside and Los Angeles; University of Alaska; Incarnate Word College, San Antonio. At Riverside City College since 1968.

DOSCHNA, SONIA Associate Professor of Physical Education
B.S., Wayne State University; M.A., California State University, Los Angeles. At Riverside City College since 1965.

DUARTE, SALVADOR R. Assistant Dean of Academic Services, IMC and Grants Officer.
Associate Professor of Vocational Education
B.V.E., M.A., California State College, Long Beach; teacher education at University of California at Los Angeles. At Riverside City College since 1968.

DUNCAN, JAMES K. Associate Dean of Academic Services, Extended Day & Summer Session.
Associate Professor of Mathematics and Physics
B.A., Hastings College; M.Ed., Marquette University; graduate study at Claremont Graduate School. At Riverside City College since 1953.

DYER, DAVID R.C. Associate Professor of Speech, Theater Arts
B.A., Park College, Parkville, Missouri; B.T.A., Pasadena Playhouse College of Theater Arts; graduate study at Pasadena Playhouse College, University of Southern California, University of California, Los Angeles, and Claremont Graduate School. At Riverside City College since 1964. On leave spring semester 1977.

ELLIOTT, JOHN C. Assistant Professor of Physics

EVERETT, STANLEY W. Associate Professor of Administration of Justice
B.A., M.C., University of California, Berkeley, Class A teaching credential at University of California, Los Angeles. At Riverside City College since 1959. On sabbatical leave, Fall semester, 1976.

FAGES, AL Associate Professor of Physical Education
B.A., University of Redlands; graduate study at University of Nevada, California State Polytechnic University (San Luis Obispo), University of Redlands, California State College, Los Angeles and San Diego. At Riverside City College since 1961.

FARRIS, KATHRYN M. (Mrs.) Assistant Professor of Physical Education
B.S., University of Oregon; M.A., University of California, Los Angeles. Additional studies at California State University, Long Beach and Fullerton and the University of California, Los Angeles. At Riverside City College since 1971.

FAUTH, BETTE L. (Mrs.) Assistant Professor of Art
B.A. (with High honors), Thiel College; M.A., Gallaudet College; M.A., Claremont Graduate School; graduate study at University of California, Riverside; Ball State University; University of San Diego, (Guadalajara, Mexico); California State University, San Bernardino and Northridge; Institute Allende, San Miguel, Mexico; Claremont Graduate School. At Riverside City College since 1972.

FLAMBE, GEORGE Assistant Professor of Graphic Arts
A.A., Fullerton Junior College; community college credential, University of California, Los Angeles. At Riverside City College since 1972.

FREJAVILLE, EVE Associate Professor of French
Baccalaureat, the Sorbonne (Paris, France); Ph.D., University of Havana (Cuba); graduate study at the Sorbonne, and University of California, Los Angeles. At Riverside City College since 1964.

GARVIN, ROBERT L. Assistant Professor of Automotive Technology
A.A., Riverside City College; additional studies at University of California, Los Angeles and Riverside, and Southern Illinois University. Lifetime Standard Designation Subject Teaching Credential and Lifetime Community College Credential. At Riverside City College since 1972.

GEORGAKAKOS, JOHN Assistant Professor of Chemistry
B.A., California State University, Sacramento; M.S., University of Washington; candidate in philosophy, University of Washington. At Riverside City College since 1971.

GLADDEN, GARNETT LEE Associate Professor of Philosophy and Psychology
A.A. (with High Honors), Riverside City College; A.B., University of California, Berkeley; M.A., Claremont Graduate School; graduate study at University of California, Berkeley, Los Angeles and Riverside, and California State University, Los Angeles. Licensed psychologist, State Board of Medical Examiners; Licensed Marriage, Family and Child Counselor, Behavioral Science Examining Board, State of California. At Riverside City College since 1946.

GOSS, PAULINE (Mrs.) Assistant Professor of Nursing
A.A., San Bernardino Valley College; B.S., Loma Linda University; M.S., California State University, Los Angeles. At Riverside City College since 1976.
GREEN, CECIL D. Associate Professor of Graphic Arts, Psychology, and Counseling B.A., University of California, Santa Barbara; M.A., California State University, Los Angeles; Ph.D., United States International University; graduate study at Loyola University, University of California, Los Angeles and Riverside, Western Washington State and University of Redlands. At Riverside City College since 1966.

GROBUD, ALBERT A. Associate Professor of Physics, Mathematics B.S. (cum laude), Wisconsin State University; M.S., University of Wisconsin; graduate study at Case Institute of Technology, University of California, Los Angeles and Berkeley, Claremont Graduate school, and New Mexico State University. At Riverside City College since 1958.

GUIN, JOHN A. Associate Professor of Music and Business A.A., Riverside City College; B.Mus., University of Redlands; M.Mus., University of Redlands; graduate study at University of Southern California and at Redlands University. At Riverside City College since 1957.

HADDEN, HELEN (Mrs.) Associate Professor of Business A.A., Riverside City College (Honors); B.A., California State University, Fullerton; M.A., California State University, Los Angeles. At Riverside City College since 1966.

HAIN, MICHAEL L. Associate Professor of Zoology B.A., M.A., University of California, Riverside; graduate study at University of California, Davis, and Marine Biological Station, Woods Hole, Massachusetts; Hopkins Marine Station, Pacific Grove, California, and University of Southern California Marine Biological Laboratory on Santa Catalina Island. At Riverside City College since 1965.

HANSEN, ALLEN Associate Professor of Mathematics Chairperson, Physical Science Division B.S., University of Minnesota; M.A. California State University, Long Beach; additional study at California State University, San Diego, and University of California, Los Angeles and Riverside. At Riverside City College since 1962.

HARPER, KENNETH Associate Professor of Anthropology A.B., Asbury College; B.D., Asbury Seminary; M.A., Ph.D., University of Kentucky. Post graduate study at Hartford College. At Riverside City College since 1972.

HARRY, OWEN K. Associate Professor of Art B.A., Oklahoma City University; M.A., University of New Mexico; graduate study at University of California, Riverside and Claremont Graduate School; advanced art training, Chouinard Art Institute, Los Angeles. At Riverside City College since 1961.

HATHAWAY, W. ELIZABETH (Mrs.) Associate Professor of Chemistry B.S., M.S., California State University, Long Beach. N.S.F. Research participant, University of California, Berkeley; graduate study at the University of California, Riverside. At Riverside City College since 1964.

HAUGH, JUDY L. Assistant Professor, Counseling A.A., Citrus College; A.B., M.S., University of Southern California. At Riverside City College since 1971.

HAWLEY, RAPHAEL C. Associate Professor of Physics, and Astronomy B.E., Wisconsin State University; M.S., University of Wisconsin; graduate study at Case Institute of Technology, University of Minnesota, University of California, Riverside, California State University, San Diego, and University of Redlands. At Riverside City College since 1968.

HAZLETT, LAURIS Associate Professor, Program for the Deaf B.S. Westminster College; M.Ed., University of Arizona; M.A.T. California State University, San Diego. At Riverside City College since 1973.

HEATH, WILLIAM D. Assistant Professor of Physical Education B.A., California State University, San Diego. M.A., California State University, Long Beach. At Riverside City College since 1968.

HENSEL, CAROL R. (Mrs.) Assistant Professor of Home Economics B.A., Upland College; study at Claremont Graduate School. At Riverside City College since 1967.

HERNANDEZ, TONY A. Associate Professor, Counseling A.A., Riverside City College; B.A., M.A., University of Redlands; graduate study at University of California, Riverside. At Riverside City College since 1967.

HILL, JAMES W. Assistant Professor of History A.A., Compton College; B.S., M.A., California State University, San Jose. At Riverside City College since 1968.

HILLMER, HARALD Assistant Professor of Marketing B.A., Washburn University; graduate study at Loma Linda University. At Riverside City College since 1968.

HOLSTROM, ROBERT L. Assistant Professor of Graphic Arts Chairperson, Vocational Education Division A.A., Fullerton Junior College; vocational teacher training, University of California, Los Angeles. At Riverside City College since 1970.
HOLTEN, VIRGINIA ZEWE (Mrs.) Assistant Professor of Chemistry
B.A., Mount Mercy College, Pittsburgh; M.S. and Ph.D., University of North Dakota. Postdoctoral work at Biology Division, Oak Ridge National Laboratory, Tennessee and the University of California, Riverside. Graduate study at University of Glasgow (Scotland). At Riverside City College since 1969.

HORTON, JOHN R. Associate Professor of History
A.A., Long Beach City College; B.A. (Magna Cum Laude), M.A., California State College, Long Beach. At Riverside City College since 1956.

HOSKING, BETTY (Mrs.) Associate Professor of Home Economics
B.A., Santa Barbara State College; M.A., Loma Linda University; graduate study at California State University, Long Beach, Loma Linda University, and UCR. At Riverside City College since 1965.

HUANG, SAMUEL D. Associate Professor of Biology and Health Sciences
B.S., State University of New York, New Paltz; M.S., Ph.D., St. John's University, (N.Y.). At Riverside City College since 1974.

HUGHES, THEODORE G. Assistant Professor of History and Philosophy
B.G.S. (with honors), University of Iowa, M.A., University of Redlands. At Riverside City College since 1970.

HUNT, GLENN E. Associate Professor of Chemistry, Mathematics
B.S., M.S., Texas Technological College; graduate study at Iowa State University, University of Redlands, University of Southern California, University of California, Riverside, Agricultural and Mechanical College of Texas, and Oregon State University. At Riverside City College since 1958.

HUNT, WILBERT F. Associate Professor of English, Speech
B.S., New York University; M.A., Columbia University; graduate study at New York University, Peabody College, University of Southern California, University of Kentucky, Claremont Graduate School, California State University, Fullerton and San Bernardino, University of Redlands, University of California, Riverside, University of New Mexico, Highlands; University of Miami (Florida) and Austin Peay State College (Tennessee). At Riverside City College since 1958.

JACKSON, BRUCE Assistant Professor, Counseling
A.A., Riverside City College; B.A., California State University, Fullerton; M.A., University of California, Los Angeles. At Riverside City College since 1973.

JACKSON, CHARLES Assistant Professor of Anthropology
A.A., Riverside City College; B.A., California State University, Fullerton; M.A., University of California, Los Angeles; Ph.D., candidate, University of California, Los Angeles. At Riverside City College since 1970.

JAFFE, NANCY (Ms.) Assistant Professor of History
B.A., University of California, Berkeley; M.A., Yale University. Additional study at University of California, Berkeley, Riverside, and Los Angeles. At Riverside City College since 1969.

JIMENEZ, GILBERT Assistant Professor of History
B.A., University of Redlands. Graduate study at California State University, Los Angeles, and University of California, Riverside. At Riverside City College since 1970.

JOHNSON, CECIL E. Associate Professor of Biology
A.A., Compton College; B.S., University of Southern California; M.A., California State University, Los Angeles; graduate study at Hopkins' Marine Station, Stanford University, University of California, and University of Redlands. At Riverside City College since 1952.

JOHNSON, THOMAS MARK Associate Professor of Physical Education, Director of Athletics, Chairperson of Physical Education Division
B.S., Kansas State Teachers College; M.S., University of Iowa; graduate study at University of Redlands. At Riverside City College since 1969.

JOHNSON, THOMAS MEIDELL Associate Professor of English
B.A., Doane College; M.A., University of Redlands; graduate study at Claremont Graduate School. At Riverside City College since 1958.

KENNEDY, PATRICIA A. (Mrs.) Assistant Professor of Speech
A.A., Riverside City College; B.S., M.A., University of Southern California. Graduate study at University of California, Riverside. At Riverside City College since 1969.

KIRKPATRICK, ALLAN O. Associate Professor of Sociology and Psychology
B.S., M.S., Indiana University; graduate study at Missouri State Teachers College, University of California, Riverside, Butler University; California State University, Los Angeles, and University of Southern California. Licensed Marriage, Family, and Child Counselor. At Riverside City College since 1961. On sabbatical leave, 1976-77.

KNOPF, ARTHUR C. Director of Community Services and Public Information. Associate Professor of Political Science
B.A., Carleton College; M.S., University of Southern California; graduate study at University of California, Los Angeles, University of Minnesota, and Claremont Graduate School. At Riverside City College since 1950.

KOENIG, DAVID Instructor in Cosmetology
Graduate of Richard DeToto Beauty College, Syracuse, N.Y.; additional study at L'Oreal Color School, New York City. A.A., Citrus
KOVACK, ERNIE  Associate Professor of Business
B.S., M.S., University of California at Los Angeles. At Riverside City College since 1965.

KOZAL, VIOLET E. (Mrs.)  Instructor in Accounting
A.A., Chaffey College; B.S.; University of California at Los Angeles; graduate study at University of California, Riverside and Loma Linda University. At Riverside City College since (part-time) 1968, full-time, Spring 1974.

KRAUS, LEE  Assistant Dean of Academic Services, Extended Day, and Summer Session. Associate Professor of English.
B.A., University of Redlands; M.A., University of Notre Dame; graduate study at University of Redlands and University of Southern California. At Riverside City College since 1966.

KRIVANEK, KENNETH  Associate Professor of German Chairperson, English and Foreign Language Division
A.A., Riverside City College; A.B., Wabash College; M.A., University of California, Los Angeles; graduate study at Claremont Graduate School, the Goethe-Institut, Munich, Germany, and Stirling (Scotland) University. At Riverside City College since 1960.

KROGER, ROBERT S.  Associate Professor of Mathematics
A.A., Pomona Jr. College (now Mt. San Antonio College); B.A., (With Distinction), Stanford university; E.M., Stanford University; graduate study at Claremont Graduate School. At Riverside City College since 1958.

KROSS, JAMES  Assistant Professor of Physical Education
A.A., Riverside City College; B.A., Fresno State University; M.A., Azusa Pacific College; graduate study at Redlands University; University of California, Riverside. At Riverside City College since 1972.

LARSEN, HOWARD B.  Dean of Academic Services
Assistant Superintendent
Associate Professor of Psychology and Counseling
A.A., Weber Junior College; B.S., M.S., Brigham Young University; Ed.D., Stanford University. Post doctoral study at Stanford University, University of California, Berkeley. At Riverside City College since 1975.

LARSON, LOUIS E.  Associate Professor of Geography
B.A., Gustavus Adolphus College; M.A., University of Minnesota; graduate study at Kansas State University, University of Denver, University of California, Riverside, and at Instituto Cultural, Guadalajara. At Riverside City College since 1967.

LATHAM, THOYD O.  Associate Dean of Academic Services, Occupational Education
B.A., M.A., California State University, San Jose; Ed.D., Oregon State University. Also attended San Francisco City College, Columbia University, and technical schools conducted by Union Oil, General Motors, Ford, and Champion. At Riverside City College after July 1, 1976.

LAWSON, LILLIAN RUTH (Mrs.)  Associate Professor of Nursing
A.A., Northeastern Oklahoma A&M.; Diploma, Orange County General Hospital School of Nursing; B.S., University of Colorado, M.S., California State University, Los Angeles. At Riverside City College since 1961.

LEDFORD, EDWARD B.  Assistant Professor of English
B.A., M.A., California State University, Fullerton. Graduate studies at University of California, Riverside. At Riverside City College since 1970.

LEESCH, EVA MAE (Mrs.)  Associate Professor of Nursing
B.S., M.S., Loma Linda University. Diploma in Nursing, St. Helena Sanitarium and Hospital. At Riverside City College since 1964.

LINDSEY, BONNIE J.  Instructor, Medical Assisting
A.S. (With Honors) Mt. San Jacinto College; B.V.E.d., California State University, Long Beach, California. At Riverside City College since 1975.

LOCKER, JOHN S.  Instructor in Administration of Justice
B.S., M.P.A., Pepperdine University. At Riverside City College since spring, 1974.

LOMAYESVA, DWIGHT  Instructor in Native American Studies
B.S., University of Arizona; B.S., California State Polytechnic University, Pomona; graduate study, Northern Arizona University, University of California, Riverside, University of Arizona, and San Diego State University. At Riverside City College since 1974.

LONDOS, GEORGE  Assistant Professor of Biology
B.A., M.A., Arizona State University; graduate study at University of Colorado, Claremont Graduate School, and Colby College. At Riverside City College since 1970.

LONG, GAIL CAROLE (Mrs.)  Assistant Professor of Humanities and Physical Education
B.A. and M.A., University of California, Los Angeles. At Riverside City College since 1973.

LORING, ALBERT E.  Chairperson of Business Division
Associate Professor of Business
A.A. (With Honors) Riverside City College; A.A., A.A., University of Redlands; graduate study at Boston University, University of Hawaii, and University of California, Riverside. At Riverside City College since 1958.
LOWE, FREDERICK A. Associate Professor of Biology
A.A., Compton College; B.A., University of California, Santa Bar-
bara; M.A., Pepperdine University; graduate study at University
of California, Los Angeles, University of California, Riverside,
and Hopkins’s Marine Station, Stanford University. At Riverside
City College since 1958.

MacCUIISH, DAVID E. Associate Professor of Speech, English
B.A., New Mexico; M.A., Claremont Graduate School; graduate
study at University of Pennsylvania, University of California, and
California State College, Fullerton. At Riverside City College
since 1974.

MARKOV, KATHERINE L. Assistant Professor of Music
A.A., Riverside City College; B.A., M.A., University of California,
Riverside. At Riverside City College since 1974.

MADRIGAL, ARMAND Assistant Professor of Library Science
A.A., San Francisco City College; B.A., San Francisco State Col-
lege; M.L.S., University of Southern California; graduate study at
University of California, Riverside. At Riverside City College
since 1969.

MARQUEZ, E. CYNTHIA Assistant Professor of Philosophy
A.A., Riverside City College; B.A., M.A., University of California,
Riverside. At Riverside City College since 1966.

MARSH, JEAN (Mrs.) Assistant Professor of Cosmetology
Graduate of Morgantown Beauty School, Inc., West Virginia; ad-
ditional study at Robert Fiance School of Advanced Hair Styling,
New York; Vidal Sassoon Hair Training Center, San Francisco;
teacher training at Riverside City College and University of Cali-
ifornia, Los Angeles, Vocational Division. At Riverside City Col-
lege since 1969.

MATTHEWS, W. PAUL Associate Professor of Electronics
A.A., Riverside City College; B.A., California State College, Los
Angeles; graduate study at University of California, Los Angeles,
and California State University, Long Beach. At Riverside City Col-
lege since 1963.

MATULICH, JOHN M. Deputy Superintendent and Dean
of Student Personnel Services
Associate Professor of Physical Education
A.A., B.S., M.S., University of California, Los Angeles; graduate
study at Redlands University and University of California, Los
Angeles. At Riverside City College since 1955.

MAUL, GAIL (Mrs.) Assistant Professor of English
B.A., Stanford University; M.A., California State University, San
Francisco. At Riverside City College since 1969.

MAY, WILLIAM Assistant Professor, Dean Program
B.A., California State University, San Francisco; M.S.Ed., Gal-
laudet College, Washington, D.C.; graduate study at Northwestern
University, University of Southern California, and University of Cali-
ifornia at Riverside, California State College, San Bernardino.
At Riverside City College since 1968.

McELROY, DORIS J. (Mrs.) Assistant Professor of Nursing
Diploma Oklahoma Baptist Hospital School of Nursing; Vocational
Credential University of California, Los Angeles. At Riverside
City College since 1969.

MERRELL, DONALD L. Assistant Professor of Administration of Justice
A.A. and A.S., West Valley College; B.A., M.A., California State
University, San Jose. Graduate study at California State Univer-
sity, San Jose and University of California, Riverside. At River-
side City College since 1973.

MESTAS, BETTY (Mrs.) Assistant Professor of Cosmetology
Los Angeles Trade Technical College; Cosmetology, Trade Tech-
cological College; Electrolysis, Vocational graduate; (University of
California, Los Angeles) Vocational Supervision. At Riverside
City College since 1966.

METCALF, LEONARD C. Associate Dean of Student Personnel
Services, Student Affairs. Associate Professor of English
B.A., Houghton College, M.S., Syracuse University; graduate study
at University of California, Berkeley, and Redlands University.
At Riverside City College since 1956.

MILLER, JOSEPH Associate Professor of Health Science and Speech
Chairperson of Biological Sciences Division
B.A., University of Washington; M.A., California State University,
Long Beach; graduate study at Claremont Graduate School, Cali-
ifornia State University, Long Beach, University of Washington,
and University of California, Riverside. At Riverside City College
since 1957.

MITCHELL, WILLIAM W. Associate Professor of Art
B.F.A., University of Denver, M.A., Claremont College. At River-
side City College since 1963.

MORGAN, GLORIA JEAN (Mrs.) Associate Professor of Cosmetology
Graduate of Los Angeles Trade Technical College; teacher train-
ing at El Camino College. Additional study at Los Angeles Trade-
Technical College. Vocational graduate, University of California,
Los Angeles. At Riverside City College since 1966.

MORRISON, JAMES Assistant Professor of Biology
B.S. (Cum Laude), M.S., Kansas State University. At Riverside
City College since 1971.

MYERS, DONALD W. Associate Professor of Biology
B.S., Indiana State; M.S., University of Wisconsin; graduate study
at University of Southern California, University of California, Riv-
erside; California State University, Los Angeles; Redlands Uni-
versity and Loma Linda University. At Riverside City College
since 1962.
MYERS, GIFFORD  Instructor in Ceramics  
B.Arch., University of California, Berkeley. (With Honors);  
M.F.A. University of California, Irvine. At Riverside City College  
since 1975.

NAVA, CAESAR P.  Assistant Professor of Automotive Technology  
Graduate of National Schools, Automotive, Los Angeles; Vocational  
Credential University of California, Los Angeles. Community  
College (life) credential. At Riverside City College since 1969.

NEMER, HAROLD  Assistant Professor of Astronomy  
B.S. (With Distinction) Stanford University; M.S., U.S. Naval  
Postgraduate School. At Riverside City College since 1970.

NEWSTEAD, JOHN E.  Associate Professor of Business  
B.S., State University of New York, Albany; M.A., University of  
Redlands; graduate study at Syracuse University and University  
of California. At Riverside City College since 1970.

PAQUETTE, MAY R. (Mrs.)  Instructor in Business  
A.A. (with Honors), Riverside City College; B.A. (with Honors),  
California State College, San Bernardino; M.S., California State  
Polytechnic University, Pomona. At Riverside City College since  
1974.

PARKER, AL  Assistant Professor of History  
A.B., M.A., University of California, Los Angeles. At Riverside  
City College since 1969.

PARTIDA, JOHN R.  Assistant Professor of Cosmetology  
Graduate and instructor training, Richard’s Beauty College, Ontario;  
Clairol, Roux, and Lapinal Hair Color School; Pivot Point and  
Trend Setters International; Advanced and Competition Hair-  
styling. At Riverside City College since February, 1971.

PENN, JOHN  Instructor in Electronics  
At Riverside City College since 1975.

PETERS, PATRICIA  Associate Professor of Physical Education  
A.A., Riverside City College; B.A. and M.A., California State Uni-  
versity, Long Beach; graduate study at University of California,  
Los Angeles, Riverside and University of Southern California. At  
Riverside City College since 1962.

PLEASANTS, JOAN C. STAFFORD  Associate Professor of Chemistry  
B.S., University of California, Los Angeles; M.S., University of  
California, Riverside; graduate study at University of California,  
Los Angeles and Riverside, Harvey Mudd College, Chapman  
College, and University of California Extension, Berkeley. N.S.F.  
Chautauqua participant. At Riverside City College since 1966. On  
sabbatical leave, 1976-77.

RICKSON, ROGER E.  Instructor in Music  
B.A., San Diego State College; M.A., University of Redlands.  
Graduate study at San Diego State College. At Riverside City  
College since 1975.

RIDLEY, JACQUELINE H.  Instructor in Gerontology  
B.A. and M.A., University of California, Riverside; Graduate stu- 
dy at Ethel Percy Andrus Gerontology Center, University of  
Southern California. At Riverside City College since 1975.

RINGLUND, NATALIE  Associate Professor of Physical Education  
B.S., Arnold College; M.S., University of California, Los Angeles;  
graduate study at University of California, Berkeley and River- 
side. At Riverside City College since 1962.

ROBERTS, J. FAYE (Mrs.)  Associate Professor of Cosmetology  
Vocational graduate of University of California, Los Angeles;  
graduate of Frank Wiggins Trade School in Cosmetology; graduate  
of the Los Angeles Trade Technical College in electrology; graduate  
of Newberry’s College of Cosmetology; graduate work in  
the Al Tate College of Cosmetology; certified in coloring tech- 
niques from Clairol, Wella, Roux and Lapinal; Pivot Point and  
Trend Setters International advanced styling techniques. At Riv- 
erside City College since 1965.

ROBY, PAUL J.  Associate Professor of Anatomy and Physiology  
B.S., Pennsylvania State College at East Stroudsburg; M.S., Uni- 
versity of Pennsylvania; Ph.D., Loma Linda University. At River- 
side City College since 1951.

ROJAKOVICK, PHYLLIS L. (Mrs.)  Assistant Professor of Nursing  
B.S., University of Illinois. Standard Designated Teaching Creden- 
tial, University of California, Los Angeles. Graduate study at  
Loma Linda University. At Riverside City College since 1968.

ROSE, NANCY H. (Mrs.)  Assistant Professor of Library Science  
B.A., Occidental College; M.A., University of Southern California.  
Graduate study at University of California, Riverside, Berkeley,  
and Los Angeles. At Riverside City College since 1970.

ROSS, JOHN T.  Assistant Professor of Music  
B.A., San Diego State College; M.M., Northern Arizona University.  
Graduate study at University of California, California State  
University, San Diego, Oberlin Conservatory, Ohio and University  
of Oregon. At Riverside City College since 1971.

ROYCE, JOAN A. (Mrs.)  Assistant Professor of Psychology  
A.A. (with Honors), Riverside City College; B.A., University of  
California, Riverside; M.A., Claremont Graduate School; graduate  
work at University of California, Riverside. At Riverside City  
College since Spring 1967.
SASAKI, CHIYO (Ms.) Instructor in Nursing R.N., St. Mary’s School of Nursing, Quincy, Ill.; B.S., Loyola University (Chicago); M.S., University of California, Los Angeles. At Riverside City College since 1974.

SAUNDERS, JUNE (Mrs.) Associate Professor of Nursing R.N., Nebraska Methodist School of Nursing, B.S., California State University, Long Beach. At Riverside City College since 1960.

SAUSSER, DARRELL A. Assistant Professor of Music B.M., M.S., University of Southern California. Graduate study at Mexico City College; University of Hawaii; California State University, Long Beach and Sacramento; University of California, Riverside; University of Nevada; University of Redlands, and University of Oregon. At Riverside City College since 1968.

SCHALL, JANICE Assistant Professor of Sociology B.A., M.A., University of California, Riverside; graduate work, University of California. At Riverside City College since 1971.

SCHNEIDER, RICHARD C. Associate Professor of Psychology and Religion B.A., Carthage College, M.Ed., University of Texas, M.Div., Northwestern Theological Seminary; graduate study at University of Minnesota, Claremont Graduate School, Redlands University, and University of California, Los Angeles. State of California license in child, marriage and family counseling. At Riverside City College since 1961.

SCHULTZ, GARY Associate Professor of Theater Arts A.B., Fresno State College; M.F.A., University of California, Riverside; graduate study at California State University, Fresno and Fullerton, and the University of California, Riverside. At Riverside City College since 1966.

SEMONELLA, GARY J. Assistant Professor of English B.A., M.A., California State University, Fullerton. Graduate study at University of Southern California. Also attended Mt. San Antonio College. At Riverside City College since 1967.

SENSOR, PHYLLIS (Mrs.) Associate Professor of English, Counseling B.A., Oberlin College, M.A., Syracuse University; graduate study at California State University, Los Angeles, University of California Extension, University of Redlands, and Loma Linda University. At Riverside City College since 1959.

SHABELL, KENNTH J. Assistant Professor of Mathematics B.A., University of California, Riverside; M.S., California State University, San Diego; graduate study at University of California, Riverside. At Riverside City College since 1971.

SHARP, MARGARET Assistant Professor, Counseling A.A., Riverside City College; B.M.E., Northwestern University, M.A., Syracuse University, New York; graduate study at University of California, Riverside; University of the Pacific, Stockton; Loma Linda University. At Riverside City College since 1968.

SHARP, SELBY S. Associate Professor of Chemistry, Engineering and Mathematics A.A., Oceanside-Carlsbad Junior College; B.S., North Texas University. Additional and undergraduate study at University of California, Los Angeles, University of Southern California and Texas A&M; M.A., California State University, Fresno; graduate study at the University of California, Berkeley and Riverside, Kansas State College, Pittsburg and Bucknell University. At Riverside City College since 1957.

SHEWMAN, CHARLES A. Associate Professor of Sociology B.A., M.A., Washington University; graduate study at St. Louis University, University of Michigan, Occidental College, University of California, Berkeley, Los Angeles, Riverside, University of San Diego at Guadalajara. At Riverside City College since 1967.

SOUTHWICK, ROBERT S. Associate Professor of Geology B.A., California State University, Fresno; M.A., University of Southern California. At Riverside City College since 1961.

SPRINGER, RICHARD L. Instructor, Program for the Handicapped A.A., Orange Coast College; A.B., M.S.Ed., University of Southern California; graduate study at California State University, Long Beach, and University of California, Riverside City College since 1975.

STALLINGS, DINA (Mrs.) Associate Professor of English, Speech B.A., Southeastern State College (Oklahoma), M.A., Ph.D., University of Southern California; post-graduate work at University of Redlands. At Riverside City College since 1961.

STANLEY, CLARCHEN (Mrs.) Assistant Professor of Photography Vocational graduate, University of California, Los Angeles. Studied at Long Beach City College and University of California, Los Angeles and Irvine. Certificate in photography, Santa Monica City College. At Riverside City College since 1968.

STECK, DOROTHY (Mrs.) Assistant Professor of Nursing B.S., St. Mary College, Xavier, Kansas; Diploma in Nursing, Mercy Hospital School of Nursing, Pittsburgh; M.Ed., University of Pittsburgh. At Riverside City College since 1969.

STOVER, RICHARD Associate Professor of Music and Chairperson, Division of Fine and Applied Arts B.A., Pomona College, M.A., Claremont Graduate School; graduate study at University of Redlands and University of California, Riverside. At Riverside City College since 1963.
STRAIN, LETHA L. (Mrs.) Assistant Professor of Business
B.S., M.A., Texas Woman's University, Denton, Texas. At Riverside City College since 1968.

THOMPSON, FRED A. Associate Professor of Economics
Chairperson, Social Science Division
B.A., M.A., University of California, Los Angeles; Ph.D., University of California, Riverside; graduate study at Stanford University; University of California, Los Angeles and Riverside; University of Minnesota. At Riverside City College since 1965.

THORNTON, JOHN P. Assistant Professor of English
B.S., Fordham University; M.A., Allegheny College; graduate work at University of Toronto, University of Southern California, University of California, Los Angeles and Riverside. At Riverside City College since 1971.

TILTON, IRMY (Mrs.) Director, Cosmetology
Associate Professor of Cosmetology
A.A. (With Distinction) Riverside City College; B.V.E., California State University, Long Beach; graduate of Victoria Lyzeum, Magdeburg, Germany; finishing schools at Lausanne, Switzerland, and London, England; graduate of Lake Shore School of Beauty Art (Milwaukee); graduate study at American Hair Design Institute, New York; vocational graduate, University of California, Los Angeles and Riverside. At Riverside City College since 1960.

TOSSOUNIAN, JERRY Assistant Professor of French and Italian
Baccalaureat, French Embassy, Cairo, Egypt; B.A., California State University at Los Angeles; M.A., University of California, Los Angeles, graduate study at University of California, Los Angeles and Riverside, and the Sorbonne, Paris. Ph.D. candidate, University of California, Riverside. At Riverside City College since 1967.

TURNER, TONY A. Associate Professor of Physical Education
B.Sc., University of Michigan, M.A., Union University; graduate study at University of Southern California, and University of California, Riverside. Certified Los Angeles County and NAUI SCUBA Instructors. At Riverside City College since 1964.

VAIL, EVAN Associate Professor of Music, Counseling
Chairperson of Counseling Division
A.A., B.A. (With Honors), University of California, Los Angeles, M.A., Occidental College; graduate study at University of Southern California and Claremont Graduate School. At Riverside City College since 1950.

WAGGONER, FRANCES P. (Mrs.) Associate Professor of English
B.A., Loretto Heights College; M.A., University of Redlands; graduate study at University of California, Riverside. At Riverside City College since 1965.

WASHINGTON, JANE H. (Mrs.) Assistant Professor of Early Childhood Education
B.A., State University of New York at Paltz; M.A., Teachers College of Columbia University; Graduate study at Pius XII Institute, Florence Italy. At Riverside City College since 1973.

WEBBER, CHARLES Assistant Professor of Auto Technology
Life vocational credential, University of California, Los Angeles. At Riverside City College since 1968.

WILES, JEAN E. (Mrs.) Assistant Professor of Nursing
P.H.N., California, A.A., Fullerton Junior College; B.S., California State University, Los Angeles; M.S., California State University, Los Angeles; graduate study, Loma Linda University, University of California, Los Angeles and Riverside. At Riverside City College since February, 1972.
WILEY, WILLIAM B. Associate Professor of English A.B., Wabash College; M.A., University of California, Los Angeles. At Riverside City College since 1956.

WILSON, BRUCE Associate Professor of Physical Education A.A., Riverside City College; B.S., M.S., University of Southern California; graduate study at California State University, Los Angeles and University of California at Riverside. At Riverside City College since 1966.

WILSON, JAMES H. Associate Professor of English B.A., New Mexico Highlands University; M.A., California State University, Los Angeles; graduate study, University of Redlands, Arizona State University, Tempe. At Riverside City College since 1966.

WOOD, WILLIAM H. Assistant Professor of Physical Science A.A., Boise Junior College; B.S., Johns Hopkins University; M.S., University of California, Riverside. At Riverside City College since 1967.

WOODS, (Mrs.) GERALDINE H. de VALENZUELA Assistant Professor of Sociology, Anthropology B.A., M.A., California State University, Fullerton. Graduate study at University of California, Los Angeles. At Riverside City College since 1970.

WOOLLEY, GORDON R., JR. Business Manager and Assistant Superintendent, Assistant Professor of Business B.A., University of Utah; M.A., Arizona State University; graduate study at University of Southern California, University of Redlands and Arizona State University. At Riverside City College since 1973.

FACULTY EMERITI

Earl McDermont, Vice-President Emeritus
Martin Brauti, Professor Emeritus, Physical Science
Ruth Cooper, Professor Emeritus, Botany
Gertrude Dubbe, Professor Emeritus, Nursing
Royal Fraser, Professor Emeritus, Business
Catharine Huntley, Professor Emeritus, Physical Education
Edmund C. Jaeger, Professor Emeritus, Biological Science
Hilda Bixler Johnson, Professor Emeritus, Nursing
Henrietta Jurgen, Professor Emeritus, Nursing
Lawrence Larson, Professor Emeritus, Physical Science
Ruby (Strahan) Lockard, Professor Emeritus, Cosmetology
Maurice Mackenzie, Professor Emeritus, Economics
Clifford Mohan, Professor Emeritus, Program for the Deaf
John Ohmen, Administrative Dean Emeritus
Louise Peterson, Professor Emeritus, Home Economics
Edwin D. Sayre, Professor Emeritus, Music
Fleming L. Smith, Professor Emeritus, Business
Anthony Steponovich, Professor Emeritus, Physical Education
Doris Spivey, Professor Emeritus, Cosmetology
Winifred Turner, Professor Emeritus, Library
A. J. Twogood, Professor Emeritus, Physical Science
Mary Wallace, Dean of Instruction, Emeritus
Walter West, Professor Emeritus, Machine Shop Technology
Gerald Williams, Professor Emeritus, Electronics
Pearl Wolfsen, Professor Emeritus, College Nurse
A Quiet Moment in the Student Center Patio
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td>Courses 95 ff.</td>
</tr>
<tr>
<td>Curricular pattern 41</td>
</tr>
<tr>
<td>Accounting-Clerk</td>
</tr>
<tr>
<td>Curricular pattern 61</td>
</tr>
<tr>
<td>Accreditation</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>Add Procedures 31</td>
</tr>
<tr>
<td>Administration Building 10</td>
</tr>
<tr>
<td>Administration of Justice</td>
</tr>
<tr>
<td>Courses 96 ff.</td>
</tr>
<tr>
<td>Curricular pattern 42, 61</td>
</tr>
<tr>
<td>Facilities 10</td>
</tr>
<tr>
<td>Intern Program 99</td>
</tr>
<tr>
<td>Peace Officers</td>
</tr>
<tr>
<td>Basic Training</td>
</tr>
<tr>
<td>School, 99</td>
</tr>
<tr>
<td>Admission</td>
</tr>
<tr>
<td>Day students 16 ff.</td>
</tr>
<tr>
<td>Extended Day students 24 ff.</td>
</tr>
<tr>
<td>Registration counseling appointments 18</td>
</tr>
<tr>
<td>Who may attend 15-16</td>
</tr>
<tr>
<td>Admissions — Counseling Building 10</td>
</tr>
<tr>
<td>Aeronautics</td>
</tr>
<tr>
<td>Courses 101 ff.</td>
</tr>
<tr>
<td>Agri-Business</td>
</tr>
<tr>
<td>Courses 102 ff.</td>
</tr>
<tr>
<td>Curricular pattern 42, 61</td>
</tr>
<tr>
<td>Air Conditioning and Refrigeration</td>
</tr>
<tr>
<td>Courses 104 ff.</td>
</tr>
<tr>
<td>Curricular pattern 62</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
</tr>
<tr>
<td>Courses 105</td>
</tr>
<tr>
<td>Anthropology</td>
</tr>
<tr>
<td>Courses 105 ff.</td>
</tr>
<tr>
<td>Curricular pattern 42</td>
</tr>
<tr>
<td>Appeals by students 30</td>
</tr>
<tr>
<td>Application for admission</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>Applied Science</td>
</tr>
<tr>
<td>Curricular patterns 42 ff.</td>
</tr>
<tr>
<td>Apprentice Electrician</td>
</tr>
<tr>
<td>Courses 106 ff.</td>
</tr>
<tr>
<td>Curricular pattern 62</td>
</tr>
<tr>
<td>Architecture</td>
</tr>
<tr>
<td>Courses 107</td>
</tr>
<tr>
<td>Art</td>
</tr>
<tr>
<td>Courses 107 ff.</td>
</tr>
<tr>
<td>Curricular pattern 43</td>
</tr>
<tr>
<td>Facilities 10</td>
</tr>
<tr>
<td>Art — Commercial</td>
</tr>
<tr>
<td>Curricular pattern 62</td>
</tr>
<tr>
<td>Artist — Lecture Series 39</td>
</tr>
<tr>
<td>Arts, The, 38 ff.</td>
</tr>
<tr>
<td>Art 38</td>
</tr>
<tr>
<td>Dance 38</td>
</tr>
<tr>
<td>Drama, Speech and Forensies 38</td>
</tr>
<tr>
<td>Facilities 10</td>
</tr>
<tr>
<td>Film Series 38</td>
</tr>
<tr>
<td>Music 38</td>
</tr>
<tr>
<td>Associate in Arts Degree 26 ff.</td>
</tr>
<tr>
<td>Associated Students of Riverside City College Offices 36</td>
</tr>
<tr>
<td>Astronomy</td>
</tr>
<tr>
<td>Courses 112</td>
</tr>
<tr>
<td>Athletics 39</td>
</tr>
<tr>
<td>Attendance 33</td>
</tr>
<tr>
<td>Auditing classes 31</td>
</tr>
<tr>
<td>Auditorium 10</td>
</tr>
<tr>
<td>Automotive Technology</td>
</tr>
<tr>
<td>Courses 112 ff.</td>
</tr>
<tr>
<td>Curricular pattern 63</td>
</tr>
<tr>
<td>Facilities 10</td>
</tr>
<tr>
<td>Banking and Finance</td>
</tr>
<tr>
<td>Courses 116 ff.</td>
</tr>
<tr>
<td>Curricular pattern 64</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>Courses 116 ff.</td>
</tr>
<tr>
<td>Curricular pattern 43</td>
</tr>
<tr>
<td>Black Studies</td>
</tr>
<tr>
<td>Courses 116</td>
</tr>
<tr>
<td>Curricular pattern 44</td>
</tr>
<tr>
<td>Books and equipment 19</td>
</tr>
<tr>
<td>Bookstore 11</td>
</tr>
<tr>
<td>Botany</td>
</tr>
<tr>
<td>Courses 118 ff.</td>
</tr>
<tr>
<td>Curricular patterns 44</td>
</tr>
<tr>
<td>Breadth Requirements 20 ff.</td>
</tr>
<tr>
<td>Buildings and facilities 10 ff.</td>
</tr>
<tr>
<td>Business Administration</td>
</tr>
<tr>
<td>Courses 118 ff.</td>
</tr>
<tr>
<td>Curricular pattern 44</td>
</tr>
<tr>
<td>Also see Middle Management</td>
</tr>
<tr>
<td>Business — Clerical</td>
</tr>
<tr>
<td>Curricular pattern 64</td>
</tr>
<tr>
<td>Business Education</td>
</tr>
<tr>
<td>Courses 119 ff.</td>
</tr>
<tr>
<td>Business — General</td>
</tr>
<tr>
<td>Curricular pattern 64</td>
</tr>
<tr>
<td>Calendar 4 ff.</td>
</tr>
<tr>
<td>Change in Students’ Program 31</td>
</tr>
<tr>
<td>Change of Address 31</td>
</tr>
<tr>
<td>Chemistry</td>
</tr>
<tr>
<td>Courses 120 ff.</td>
</tr>
<tr>
<td>Curricular pattern 45</td>
</tr>
<tr>
<td>Chicano Studies</td>
</tr>
<tr>
<td>Courses 123</td>
</tr>
<tr>
<td>Curricular pattern 45</td>
</tr>
<tr>
<td>Child Development Center 11</td>
</tr>
<tr>
<td>Classification of students 27</td>
</tr>
<tr>
<td>Clerk-Typist</td>
</tr>
<tr>
<td>Curricular pattern 65</td>
</tr>
<tr>
<td>College Organization 275</td>
</tr>
<tr>
<td>College, The 7 ff.</td>
</tr>
<tr>
<td>College Year 15</td>
</tr>
<tr>
<td>Community Services 9</td>
</tr>
<tr>
<td>Community Services certificates</td>
</tr>
<tr>
<td>Curricular patterns 66 ff.</td>
</tr>
<tr>
<td>Concurrent Enrollment 33</td>
</tr>
<tr>
<td>Cosmetology</td>
</tr>
<tr>
<td>Courses 123 ff.-</td>
</tr>
<tr>
<td>Curricular patterns 68</td>
</tr>
<tr>
<td>Facilities 11</td>
</tr>
<tr>
<td>Counseling Center 35</td>
</tr>
<tr>
<td>Counseling examinations 17 ff.</td>
</tr>
<tr>
<td>Course Descriptions 93 ff.</td>
</tr>
<tr>
<td>Credit by examination 28</td>
</tr>
<tr>
<td>Credit—No Credit 29 ff.</td>
</tr>
<tr>
<td>Curricular patterns 41 fn.</td>
</tr>
<tr>
<td>Cutter Pool 11</td>
</tr>
<tr>
<td>Dactyloogy</td>
</tr>
<tr>
<td>Courses 126 ff.</td>
</tr>
<tr>
<td>Data Processing</td>
</tr>
<tr>
<td>Courses 127 ff.</td>
</tr>
<tr>
<td>Curricular pattern 45, 69</td>
</tr>
<tr>
<td>Facilities 11</td>
</tr>
<tr>
<td>Deaf, program for 23</td>
</tr>
<tr>
<td>Dean of Student Personnel Services 35</td>
</tr>
<tr>
<td>Dental Hygiene</td>
</tr>
<tr>
<td>Curricular pattern 46</td>
</tr>
<tr>
<td>Dental Technology</td>
</tr>
<tr>
<td>Courses 129 ff.</td>
</tr>
<tr>
<td>Curricular pattern 70</td>
</tr>
<tr>
<td>Dentistry</td>
</tr>
<tr>
<td>Curricular pattern 46</td>
</tr>
<tr>
<td>Dietetics</td>
</tr>
<tr>
<td>Courses 166 ff.</td>
</tr>
<tr>
<td>Curricular pattern 79</td>
</tr>
<tr>
<td>Discipline 39</td>
</tr>
<tr>
<td>Dismissal 32</td>
</tr>
<tr>
<td>Drafting</td>
</tr>
<tr>
<td>Courses — see Engineering</td>
</tr>
<tr>
<td>Curricular pattern 71</td>
</tr>
<tr>
<td>Drop Procedures 31</td>
</tr>
<tr>
<td>Early Childhood Studies</td>
</tr>
<tr>
<td>Courses 133 ff.</td>
</tr>
<tr>
<td>Curricular patterns 72 ff.</td>
</tr>
<tr>
<td>Economics</td>
</tr>
<tr>
<td>Courses 134</td>
</tr>
<tr>
<td>Curricular pattern 46</td>
</tr>
<tr>
<td>Education</td>
</tr>
<tr>
<td>Courses 136</td>
</tr>
<tr>
<td>Education—teaching</td>
</tr>
<tr>
<td>Courses 136</td>
</tr>
<tr>
<td>Curricular pattern 47</td>
</tr>
<tr>
<td>Educational objectives 19</td>
</tr>
<tr>
<td>Educational Opportunity Program 36</td>
</tr>
<tr>
<td>Electronics</td>
</tr>
<tr>
<td>Courses 136 ff.</td>
</tr>
<tr>
<td>Curricular patterns 73</td>
</tr>
<tr>
<td>Facilities 12</td>
</tr>
<tr>
<td>Engineering</td>
</tr>
<tr>
<td>Courses 143 ff.</td>
</tr>
<tr>
<td>Curricular patterns 47</td>
</tr>
<tr>
<td>Engineering Aide</td>
</tr>
<tr>
<td>Curricular pattern 74</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Courses 145 ff.</td>
</tr>
<tr>
<td>Curricular pattern 47 ff.</td>
</tr>
<tr>
<td>Environmental Science</td>
</tr>
<tr>
<td>Curricular pattern 48</td>
</tr>
<tr>
<td>Escrow</td>
</tr>
<tr>
<td>Courses 151 ff.</td>
</tr>
<tr>
<td>Curricular pattern 74 ff.</td>
</tr>
<tr>
<td>Expenses 18</td>
</tr>
<tr>
<td>273</td>
</tr>
</tbody>
</table>
Extended Day 24 ff.
Counseling examinations 25
Educational objectives 25
Enrollment 24 ff.
Fees 25
Test permits 25

Faculty 245 ff.
Faculty Emeriti 269
Fees, non-resident 16
Final Examinations 30
Financial Aid 37

Fire Science
Courses 152 ff.
Curricular pattern 75
Food Services
Courses 168 ff.
Curricular pattern 78 ff.
Foreign Students 19
Forestry & Conservation
Curricular pattern 48
Forest Management
Curricular patterns 48
Forum 12
French
Courses 154 ff.

General Information 15 ff.
Geography
Courses 156
Geology
Courses 156 ff.
Curricular pattern 49
German
Courses 157 ff.
Gerontology
Courses 158 ff.
Grade points 29
Grades for repeated courses 31
Grades required for
Prerequisite courses 30
Grading system 28 ff.
Graphic Arts
Courses 160 ff.
Curricular patterns 76 ff.
Facilities 12
Handicapped Students 38
Health requirements 16

Health Science
Courses 164
Curricular pattern 49
Health Services 35
Fees 19
History
Courses 164 ff.
Curricular pattern 49
History and development
of the College 9
Home Economics
Courses 168 ff.
Curricular patterns 50 ff, 78
Honorary Organizations 37
Honors at graduation 27
Housing 36
Humanities
Courses 174 ff.

Industrial Arts
Curricular pattern 50
Instructional Aide
Curricular pattern 67
Instructional Media
Center 12
Italian
Courses 175 ff.

Journalism
Courses 176 ff.
Curricular pattern 50, 80
Facilities 12
Kuder Occupational
Interest Survey 18

Law
Curricular pattern 50
Library
Courses 178 ff.
Library Clerk
Curricular pattern 80
Library Technical Assistant
Curricular pattern 80
Life Science Building 13
Machine Shop Technology
Courses 179 ff.
Manufacturing Technology
Curricular pattern 81
Registration — see Admission
Repeated courses, Grades for 30
Residence 15
Resource Sciences Curricular pattern 55

Secretarial Science Courses 221 ff. Curricular pattern 88 ff.
Service-Social Organizations 37
Sex Non-Discrimination 16
Social events 39
Social Sciences Curricular pattern 55 ff.
Social Welfare Curricular pattern 56
Sociology Courses 226 ff. Curricular patterns 56
Spanish Courses 230 ff.
Speech Courses 232 ff. Curricular patterns 56
Standards of scholarship 31
Stenographer Curricular pattern 88
Strong Vocational Interest Tests 18
Structural Inspection Courses 233 ff. Curricular pattern 89
Student government 39
Student Life 35 ff.
Student services 35 ff.
Study list regulations 27
Summer sessions 15
Structural Inspection Courses 233 ff. Curricular pattern 89
Supervisory Training Courses 235 ff. Curricular pattern 90
Supportive Services 36
Surveying Technology Courses 237 ff. Curricular pattern 91
Test Permits 17, 25
Test Schedule 17-18
Theater Arts Courses 238 ff. Curricular pattern 57
Transcripts 16, 33
Transfer Curricular patterns 41 ff.
Transferability of Courses 23, 93
Transfer to Independent Colleges and Universities 22
University of California 20
California State University and Colleges 20
Tutorial Department 36
Veterans education 23
Vocational counseling 35
Welding Courses 242 Curricular pattern 91
Work Experience Education 93 ff., 243 Courses 243
Zoology Courses 244 Curricular pattern 57

RIVERSIDE CITY COLLEGE BULLETINS
College Catalog September and January
Books and Materials Required in Courses July and December
of Instruction May
Schedule of Classes
RCC Reports Published occasionally during the year
Faculty Lecture Published annually

Copies of these publications may be obtained upon request.
Address: Dean of Student Personnel Services, Riverside City College,
4800 Magnolia Avenue, Riverside, California, 92506

RIVERSIDE CITY COLLEGE
CATALOG, 1976-77
Volume XVLX

Price: fifty cents at College Bookstore
one dollar by mail