The Course Identification Numbering System (C-ID) is a statewide numbering system used for transfer courses that is independent of the actual course numbers assigned. Each C-ID number identifies a lower-division course commonly articulated between the California community colleges and CSIL and independent colleges/universities. The C-ID number will be accepted by that institution. In other words the C-ID designation can be used to identify comparable courses at different institutions. Students should she deswith a course least determine how C-ID designated courses fit into their educational plans for transfer.

Students may cons <a href="https://www.assist.org">www.assist.org</a> for specific information on C-ID course designations and to confirm how each course will be accepted at a particular four-wear institution. Courseless can always below erpret or explain this information.

Each campus retains its own course number prefix and numbers. An example of the C-ID numbering system is Hartnell College's English 1A (C-ID ENGL 100). The number 1A is Hartnell College's number; C-ID ENGL 100 is the hartnell College's numbering system. Many of the C-ID numbering system.

| CSS-2B  | Data Structures and Algorithms | C-ID COMP 132 |
|---------|--------------------------------|---------------|
| CSS-3   | Computer Architecture and      | C-ID COMP 142 |
|         | Assembly Language Programming  |               |
| CSS- 4  | Programming for Scientists and | C-ID ENGR 120 |
|         | Engineers                      |               |
| CSS-7   | Discrete Structures            | C-ID COMP 152 |
| CSS-    | Computer Science & Information | C-ID ITIS 120 |
|         | Systems                        |               |
| CSS-    | Introduction to Networks       | C-ID ITIS 120 |
| 120A    |                                |               |
| CSS-124 | Constant again dellation and a | C-ID ITIS 155 |
|         | Administration                 |               |

ECE-

| MUS- 34.1 Emphasis  MUS- 34.2 Emphasis  MUS- 34.2 Symphony Orchestra-19th Century Emphasis  MUS- 34.3 Emphasis  MUS- 34.3 Emphasis  MUS- 34.4 Symphony Orchestra-20th Century Emphasis  MUS- 34.4 "POPS"  MUS- 34.5 Emphasis  MUS- 34.5 Emphasis  MUS- 34.6 Music Theory and Musicianship  MUS-46 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship  MUS-48 Music Theory and Musicianship  MUS-49 Music Theory and Musicianship I  MUS-49 Music Theory and Musicianship II  MUS-49 Music Theory and Musicianship III  MUS-40 C-ID MUS 150  C-ID PHIL 100  PHIL-10 Ethics C-ID PHIL 100  PHIL-10 Ethics C-ID PHIL 100  PHY-2A   |        |  |               |
|--|--------|--|---------------|
| MUS- 34.2 Symphony Orhestra-19th Century Emphasis  MUS- 34.3 Emphasis  MUS- 34.4 "POPS"  MUS- 34.4 "POPS"  MUS- 34.5 Symphony Orchestra-20th Century Emphasis  Symphony Orchestra-20th Century 34.5 Symphony Orchestra-21th Century Emphasis  MUS- 34.6 Music Theory and Musicianship  MUS-46 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship I C-ID MUS 120  MUS-48 Music Theory and Musicianship I C-ID MUS 130  MUS-49 Music Theory and Musicianship III C-ID MUS 135  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-51A C-ID MUS 150  MUS- 51A C-ID MUS 150  C-ID MUS 120  C-ID MUS 120  C-ID MUS 150  C-ID PHIL-10  Ethics C-ID PHIL 100  PHIL-2 Introduction to Kinesiology C-ID PHIL 100  PHIL-10 Ethics C-ID PHIS 100  PHY-2A College Physics II  C-ID PHYS 100S  PHY-2B College Physics II C-ID PHYS 105  PHY-2B College Physics II C-ID PHYS 105  PHY-4B General Physics/Waves, Heat, Light and Modern Physics  PHY-4C General Physics/Waves, Heat, Light and Modern Physics  PHY-4B General Physics/Waves, Heat, Light and Modern Physics  PHY-32 Survey of Chemistry and Physics  C-ID PHYS 100  PSY-6 Social Psychology C-ID PSY 110  PSY-6 Social Psychology C-ID PSY 120  PSY-79 Introduction to International C-ID POLS 140  Relations  PSY-9 Introduction to Research Methods in Psychology  PSY-15 Introduction to Human Sexuality C-ID PSY 120  PSY-15 Developmental Psychology C-ID PSY 120  PSY-15 Developmental Psychology C-ID PSY 120  PSY-15 Developmental Psychology C-ID PSY 130   |        |  | C-ID MUS 180  |
| MUS- 34.3 Symphony Orchestra-20th Century Emphasis  MUS- 34.4 "POPS"  MUS- 34.5 Symphony Orchestra-20th Century 34.5 Emphasis  MUS- 34.6 Music Theory and Musicianship  MUS-46 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship  MUS-48 Music Theory and Musicianship I C-ID MUS 130  MUS-49 Music Theory and Musicianship II  MUS-49 Music Theory and Musicianship III  MUS-49 Music Theory and Musicianship III  MUS-49 Music Theory and Musicianship III  C-ID MUS 150  MUS-49 Music Theory and Musicianship III  MUS-49 Music Theory and Musicianship III  C-ID MUS 150  MUS- 50A  MUS- 51A  MUS- 51A  MUS- 52B  MUS- 53B  PETH-1 Introduction to Kinesiology  PHL-2 Introduction to Philosophy  PHL-10 Ethics  C-ID PHIL 100  PHL-10 Ethics  C-ID PHIL 100  PHY-2A   | MUS-   | Symphony Orhestra-19th Century   | C-ID MUS 180  |
| MUS- 34.4 "POPS"  MUS- 34.5 Emphasis  MUS-46 Music Theory and Musicianship  MUS-47 Music Theory and Musicianship  MUS-48 Music Theory and Musicianship  MUS-49 Music Theory and Musicianship C-ID MUS 130  MUS-49 Music Theory and Musicianship I  MUS-49 Music Theory and Musicianship II  MUS-49 Music Theory and Musicianship III  C-ID MUS 150  C-ID MUS 120  C-ID PHIL 100  C-ID PHYS 100  C-ID PHYS 100  C-ID PHYS 100  C-ID PHYS 105  C-I | MUS-   | Symphony Orchestra-20 <sup>th</sup> Century  | C-ID MUS 180  |
| MUS- 34.5   Symphony Orchestra-21st Century   Emphasis   MUS-46   Music Theory and Musicianship   C-ID MUS 120   MUS-47   Music Theory and Musicianship   C-ID MUS 135   MUS-47   Music Theory and Musicianship   C-ID MUS 135   MUS-47   Music Theory and Musicianship   C-ID MUS 135   MUS-48   Music Theory and Musicianship   C-ID MUS 140   MUS-49   Music Theory and Musicianship III   C-ID MUS 145   MUS-49   Music Theory and Musicianship III   C-ID MUS 155   MUS-49   Music Theory and Musicianship III   C-ID MUS 155   MUS-49   Music Theory and Musicianship III   C-ID MUS 155   MUS-49   Music Theory and Musicianship III   C-ID MUS 155   MUS-49   Music Theory and Musicianship III   C-ID MUS 155   MUS-50A   C-ID MUS 120   MUS-51A   C-ID MUS 125   MUS-52B   Musicianship IV   C-ID MUS 150   S38   Musicianship IV   C-ID MUS 155   S38   PETH-1   Introduction to Kinesiology   C-ID PHIL 100   PHL-2   Introduction to Philosophy   C-ID PHIL 100   PHL-10   Ethics   C-ID PHIL 100   PHL-11   Ethics   C-ID PHIL 100   PHY-2A   C-ID PHYS 100S   C-ID PHYS 100S   PHY-2B   College Physics II   C-ID PHYS 100S   PHY-2B   College Physics II   C-ID PHYS 105   PHY-4B   General Physics/Relectricity and Magnetism   C-ID PHYS 205   PHY-4B   General Physics/Relectricity and Magnetism   C-ID PHYS 110   PHY-4C   General Physics/Waves, Heat, Light and Modern Physics   C-ID PHYS 15   Abroad   POL-3   Introduction to International   C-ID POLS 130   PSY-2   General Psychology   C-ID PSY 170   PSY-8   Introduction to Research Methods   in Psychology   C-ID PSY 205   PSY-10   PSY-10   PSY-10   C-ID PSY 205   PSY-10   PSY-10   PSY-10   C-ID PSY 130   PSY-10   PSY-25   Developmental Psychology   C-ID PSY 130   PSY-25   Developmental Psychology   C-ID PSY 180   | MUS-   | Symphony Orchestra-20 <sup>th</sup> Century  | C-ID MUS 180  |
| MUS-46 Music Theory and Musicianship C-ID MUS 120 MUS-47 Music Theory and Musicianship C-ID MUS 135 MUS-47 Music Theory and Musicianship I C-ID MUS 135 MUS-47 Music Theory and Musicianship I C-ID MUS 136 MUS-48 C-ID MUS 140 MUS-48 C-ID MUS 140 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 155 MUS-49 Music Theory and Musicianship III C-ID MUS 155 MUS-49 Music Theory and Musicianship III C-ID MUS 155 MUS-50A C-ID MUS 120  MUS-51A C-ID MUS 125  MUS-51B Musicianship IV C-ID MUS 155  MUS-52B Musicianship IV C-ID MUS 150  PETH-1 Introduction to Kinesiology C-ID MUS 155  MUS-53B C-ID MUS 150  PHL-2 Introduction to Philosophy C-ID PHIL 100 PHL-10 Ethics C-ID PHIL 120 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A College Physics II C-ID PHYS 100  PHY-2B College Physics II C-ID PHYS 100 PHY-4B General Physics/Machania C-ID PHYS 110 PHY-4B General Physics/Machania C-ID PHYS 110 PHY-4C General Physics/Machania C-ID PHYS 120 PHY-32 Survey of Chemistry and Physics C-ID PHYS 140 POL-1 American Political Institutions C-ID POLS 130  POL-2 Abroad C-ID PSY 110 PSY-2 General Psychology C-ID PSY 170 PSY-8 Introduction to Research Methods in Psychology C-ID PSY 170 PSY-8 Introduction to Research Methods in Psychology (with Lab) PSY-10 Introduction to Human Sexuality C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 130  |        | . 0. 0   | C ID MUC 190  |
| MUS-46 Music Theory and Musicianship C-ID MUS 120 MUS-47 Music Theory and Musicianship I C-ID MUS 135 MUS-47 Music Theory and Musicianship I C-ID MUS 135 MUS-48 MUS-48 C-ID MUS 135 MUS-49 Music Theory and Musicianship II C-ID MUS 145 MUS-49 Music Theory and Musicianship III C-ID MUS 145 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-51A C-ID MUS 120  MUS-51A C-ID MUS 125  MUS-53B Musicianship IV C-ID MUS 150  PETH-1 Introduction to Kinesiology C-ID MUS 150 PHL-2 Introduction to Philosophy C-ID PHIL 100 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A College Physics II PHY-2B College Physics II C-ID PHYS 100S  PHY-4B General Physics/Flectricity and Magnetism C-ID PHYS 105 PHY-4B General Physics/Flectricity and Magnetism C-ID PHYS 110 POL-2 Abroad Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics C-ID PHYS 110 POL-1 American Political Institutions C-ID POLS 110 POL-2 Abroad Pol-1 American Political Institutions C-ID POLS 110 PSY-2 General Psychology C-ID PSY 170 PSY-8 Introduction to Research Methods in Psychology Introduction to Human Sexuality Introduction to Huma |        |  | C-1D MO3 180  |
| MUS-47 Music Theory and Musicianship C-ID MUS 125 MUS-47 Music Theory and Musicianship I C-ID MUS 130 MUS-48 MUS-48 C-ID MUS 145 MUS-49 Music Theory and Musicianship II C-ID MUS 145 MUS-49 Music Theory and Musicianship III C-ID MUS 145 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-50A MUS-51A C-ID MUS 120 SOA MUS-51A C-ID MUS 125 S1A C-ID MUS 125 S1B C-ID MUS 155 S1B MUS-52B C-ID MUS 155 S1B C-ID MUS 150 S1B C-ID MUS 150 S1B C-ID MUS 150 S1B C-ID PHIL 100 S1B C-ID PHIL 110 S1B C-ID S1B C-ID S1B C-ID S1B S1B C-ID S1B   |        |  | C-ID MUS 120  |
| MUS-48 MUS-48 MUS-49 Music Theory and Musicianship III MUS-50A MUS-51A MUS-51A MUS-51A MUS-52B MUS-53B PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics C-ID MUS 150 PHL-11 Logic and Critical Thinking PHY-15 Logic and Critical Thinking PHY-2A PHY-2B College Physics II C-ID PHYS 100S PHY-4B General Physics/Machanics PHY-4C General Physics/Electricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics POL-1 American Political Institutions PSY-2 General Psychology PSY-6 Social Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology PSY-10 Introduction to Research Methods in Psychology PSY-15 Introduction to Human Sexuality C-ID PSY 130 C-ID PSY 130 C-ID PSY 130 C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 120 C-ID PSY 130   | MUS-46 |  | C-ID MUS 125  |
| MUS-48 MUS-49 Music Theory and Musicianship III C-ID MUS 145 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 155 SOA MUS- SOA MUS- S1A MUS- S2B MUS- S1B PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics C-ID PHIL 100 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A PHY-2A PHY-2B College Physics II C-ID PHYS 100S PHY-4B General Physics/Hachania PHY-4B General Physics/Electricity and Magnetism PHY-4C General Physics/Electricity and Magnetism PHY-32 PHY-32 Survey of Chemistry and Physics PHY-32 PHY-32 Abroad POL-3 Introduction to International Relations PSY-2 General Psychology PSY-6 Social Psychology PSY-9 Introduction to Research Methods in Psychology PSY-15 Introduction to Human Sexuality PSY-22 Abnormal Psychology C-ID PSY 130 C-ID PSY 120 C-ID PSY 150 C-ID PSY 130 C-ID | MUS-47 | Music Theory and Musicianship I  | C-ID MUS 130  |
| MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-49 Music Theory and Musicianship III C-ID MUS 150 MUS-50A MUS-50A C-ID MUS 120 SOA MUS-51A C-ID MUS 125 S1A MUS-51B MUS-52B C-ID MUS 150 MUS-52B MUS-53B Musicianship IV C-ID MUS 155 S1B MUS-53B Musicianship IV C-ID MUS 150 PHL-2 Introduction to Kinesiology C-ID MUS 155 S1B PETH-1 Introduction to Philosophy C-ID PHIL 100 PHL-10 Ethics C-ID PHIL 100 PHL-11 Logic and Critical Thinking C-ID PHIL 110 PHY-2A College Physics II C-ID PHYS 100S PHY-2B College Physics II C-ID PHYS 100S PHY-4B General Physics/Hasharias C-ID PHYS 205 PHY-4B General Physics/Bectricity and Magnetism C-ID PHYS 205 PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics C-ID PHYS 140 POL-1 American Political Institutions C-ID POLS 130 POL-3 Introduction to International Relations PSY-2 General Psychology C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 110 PSY-7 Social Psychology C-ID PSY 170 PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 Introduction to Human Sexuality C-ID PSY 130 PSY-15 Introduction to Human Sexuality C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 180  | MUS-47 | Music Theory and Musicianship I  | C-ID MUS 135  |
| MUS-49 Music Theory and Musicianship III C-ID MUS 150  MUS-49 Music Theory and Musicianship III C-ID MUS 155  MUS-50A C-ID MUS 120  MUS-51A C-ID MUS 125  S1A C-ID MUS 125  MUS-52B Musicianship IV C-ID MUS 150  S2B MUS-53B PETH-1 Introduction to Kinesiology C-ID MUS 155  MUS-53B PETH-1 Introduction to Philosophy C-ID PHIL 100  PHL-2 Introduction to Philosophy C-ID PHIL 100  PHL-15 Logic and Critical Thinking C-ID PHIL 110  PHY-2A College Physics II C-ID PHYS 100S  PHY-2B College Physics II C-ID PHYS 100S  PHY-4B General Physics/Electricity and Magnetism C-ID PHYS 205  PHY-4B General Physics/Waves, Heat, Light and Modern Physics C-ID PHYS 215  and Modern Physics  PHY-32 Survey of Chemistry and Physics C-ID PHYS 110  POL-2 Abroad C-ID POLS 130  Abroad POL-3 Introduction to International Relations C-ID POLS 140  PSY-2 General Psychology C-ID PSY 170  PSY-6 Social Psychology C-ID PSY 170  PSY-8 Introduction to Research Methods in Psychology (with Lab)  PSY-10 Introduction to Human Sexuality C-ID PSY 130  PSY-22 Abnormal Psychology C-ID PSY 130  PSY-25 Developmental Psychology C-ID PSY 130  C-ID PSY 120  PSY-25 Developmental Psychology C-ID PSY 180   | MUS-48 | In Green - Annual Annua | C-ID MUS.140. |
| MUS-49 MUS-50A MUS-51A MUS-51A MUS-52B MUS-52B MUS-53B MUS-53B MUS-53B MUS-153B PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics PHY-15 Logic and Critical Thinking PHY-2A + PHY-2B College Physics II  PHY-4B College Physics II  PHY-4B College Physics II  PHY-4B Coneral Physics/Machanics PHY-4B College Physics II C-ID PHYS 100 PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics POL-1 American Political Institutions PSY-2 General Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology PSY-15 Introduction to Human Sexuality C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 130  |        |  |               |
| MUS- 50A  MUS- 51A  MUS- 52B  MUS- 52B  MUS- 53B  PETH-1 Introduction to Kinesiology  PHL-2 Introduction to Philosophy  PHL-10 Ethics  PHY-11 Logic and Critical Thinking  PHY-2A  | MUS-49 |  |               |
| MUS- 51A  MUS- 52B  MUS- 53B  PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics PHY-11 Introduction to Philosophy PHY-12 Introduction to Philosophy PHY-14 Introduction to Philosophy PHY-15 Introduction to Philosophy PHY-16 Introduction to Philosophy PHY-17 Introduction to Philosophy PHY-18 Introduction to Philosophy PHY-29 Introduction to Philosophy PHY-20 Introduction to Philosophy PHY-20 Introduction to Philosophy PHY-21 Introduction to Philosophy PHY-22 Introduction to International PHY-24 Introduction to International PHY-32 Introduction to International PHY-32 Introduction to International POL-3 Introduction to International Relations PSY-2 General Psychology PSY-3 Introduction to Research Methods In Psychology PSY-9 Introduction to Research Methods In Psychology PSY-10 Introduction to Human Sexuality PSY-22 Abnormal Psychology PSY-23 Developmental Psychology PSY-24 Introduction to Human Sexuality PSY-25 Developmental Psychology C-ID PSY 130   |        |  |               |
| MUS- 52B  MUS- 53B  PETH-1 Introduction to Kinesiology C-ID KINL 100  PHL-2 Introduction to Philosophy C-ID PHIL 100  PHL-10 Ethics C-ID PHIL 120  PHL-15 Logic and Critical Thinking C-ID PHIL 110  PHY-2A + PHY- 2B  PHY-2A College Physics II  PHY-2B College Physics II  PHY-4B General Physics/Bebries C-ID PHYS 105  PHY-4B General Physics/Electricity and Magnetism  PHY-4C General Physics/Waves, Heat, Light and Modern Physics  PHY-32 Survey of Chemistry and Physics  PHY-32 Survey of Chemistry and Physics C-ID PHYS 140  POL-1 American Political Institutions C-ID POLS 130  POL-2 Abroad  POL-3 Introduction to International Relations  PSY-2 General Psychology C-ID PSY 110  PSY-6 Social Psychology C-ID PSY 110  PSY-8 Introduction to Research Methods in Psychology  PSY-9 Introduction to Research Methods in Psychology (with Lab)  PSY-10 Introduction to Human Sexuality C-ID PSY 130  PSY-22 Abnormal Psychology C-ID PSY 130  PSY-25 Developmental Psychology C-ID PSY 130  PSY-22 Abnormal Psychology C-ID PSY 130  PSY-25 Developmental Psychology C-ID PSY 180   |        | Harmony I  | C-ID MUS 120  |
| MUS- 52B  MUS- 53B  PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics PHY-10 Ethics PHY-2A College Physics II PHY-2B College Physics II PHY-4B General Physics/Bectricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics PHOL-1 American Political Institutions POL-1 American Political Institutions PSY-2 General Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology PSY-10 Introduction to Human Sexuality PSY-22 Abnormal Psychology PSY-25 Developmental Psychology PSY-25 Developmental Psychology C-ID PSY 130 C-ID PSY 120 C-ID PSY 180   |        |  | C-ID MUS 125  |
| MUS- 53B  PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy PHL-10 Ethics PHL-15 Logic and Critical Thinking PHY-2A + PHY- 2B PHY-2A College Physics II PHY-2B College Physics II PHY-4B General Physics/Electricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics POL-1 American Political Institutions POL-2 Abroad POL-3 Introduction to International Relations PSY-2 General Psychology PSY-6 Social Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 Introduction to Human Sexuality PSY-22 Abnormal Psychology PSY-15 Introduction to Human Sexuality PSY-22 Abnormal Psychology PSY-25 Developmental Psychology C-ID PSY 130  | MUS-   | Hanna and IV   | C-ID MUS 150  |
| PETH-1 Introduction to Kinesiology PHL-2 Introduction to Philosophy C-ID PHIL 100 PHL-10 Ethics C-ID PHIL 120 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A + PHY-2B - College Physics II PHY-2B COllege Physics II C-ID PHYS 105 PHY-4B General Physics/Machania PHY-4C General Physics/Electricity and Magnetism PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics PHY-32 C-ID PHYS 140 POL-1 American Political Institutions POL-2 C-ID POLS 130 Abroad POL-3 Introduction to International Relations PSY-2 General Psychology PSY-6 Social Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 PSY-15 Introduction to Human Sexuality PSY-22 Abnormal Psychology PSY-25 Developmental Psychology C-ID PSY 130  | MUS-   | Musicianship IV  | C-ID MUS 155  |
| PHL-2 Introduction to Philosophy C-ID PHIL 100 PHL-10 Ethics C-ID PHIL 120 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A -   |        | Introduction to Kinesiology  | C ID KIN 100  |
| PHL-10 Ethics C-ID PHIL 120 PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A + PHY-2B College Physics II PHY-2B College Physics II C-ID PHYS 105 PHY-4A College Physics II C-ID PHYS 105 PHY-4B General Physics/Electricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics POL-1 American Political Institutions C-ID POLS 110 POL-2 Abroad POL-3 Introduction to International Relations PSY-2 General Psychology C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 170 PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 PSY-15 Introduction to Human Sexuality PSY-22 Abnormal Psychology C-ID PSY 130 PSY-25 Developmental Psychology C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 120 PSY-10 PSY-25 Developmental Psychology C-ID PSY 180   |        |  |               |
| PHL-15 Logic and Critical Thinking C-ID PHIL 110 PHY-2A + PHY- 2B  PHY-2A College Physics II  PHY-2B College Physics II  PHY-4B Concert Physics / C-ID PHYS 105 PHY-4B General Physics / C-ID PHYS 205 PHY-4B General Physics / C-ID PHYS 205 PHY-4B General Physics / C-ID PHYS 205 PHY-4C General Physics / C-ID PHYS 215 and Modern Physics PHY-32 Survey of Chemistry and Physics PHY-32 Survey of Chemistry and Physics POL-1 American Political Institutions C-ID POLS 110 POL-2 C-ID POLS 130  Abroad C-ID POLS 130  Abroad C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 170 PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 PSY-10 Introduction to Human Sexuality C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 180   |        |  |               |
| PHY-2A + PHY- 2B  PHY-2A College Physics II  PHY-2B College Physics II  C-ID PHYS 105  PHY-4A College Physics II  C-ID PHYS 105  PHY-4B General Physics/Mechanics PHY-4C General Physics/Waves, Heat, Light and Modern Physics  PHY-32 Survey of Chemistry and Physics  POL-1 American Political Institutions POL-2 Abroad  POL-3 Introduction to International Relations  PSY-2 General Psychology PSY-6 Social Psychology PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab)  PSY-10 PSY-10 PSY-22 Abnormal Psychology PSY-15 Introduction to Human Sexuality PSY-22 Abnormal Psychology C-ID PSY 130 C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 120 C-ID PSY 120 C-ID PSY 180   |        |  |               |
| + PHY-2B  PHY-2A College Physics I  PHY-2B College Physics II  PHY-4A Canceral Physics // Machanics  PHY-4B General Physics/Machanics  PHY-4C General Physics/Electricity and Magnetism  PHY-32 Survey of Chemistry and Physics  PHY-32 Survey of Chemistry and Physics  POL-1 American Political Institutions  POL-2 C-ID POLS 110  POL-3 Introduction to International Relations  PSY-2 General Psychology  PSY-6 Social Psychology  PSY-8 Introduction to Research Methods in Psychology  PSY-9 Introduction to Research Methods in Psychology (with Lab)  PSY-10 PSY-10 Introduction to Human Sexuality  PSY-22 Abnormal Psychology  PSY-15 Introduction to Human Sexuality  PSY-25 Developmental Psychology  C-ID PSY 130  C-ID PSY 120  C-ID PSY 120  C-ID PSY 120  C-ID PSY 180   |        |  |               |
| PHY-2A College Physics I C-ID PHYS 105 PHY-2B College Physics II C-ID PHYS 110 PHY-4A General Physics/Mechanics C-ID PHYS 205 PHY-4B General Physics/Electricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics C-ID PHYS 140 POL-1 American Political Institutions C-ID POLS 110 POL-2 C-ID POLS 130 Abroad C-ID POLS 130 PSY-2 General Psychology C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 110 PSY-8 Introduction to Research Methods in Psychology Introduction to Research Methods in Psychology (with Lab) PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 PSY-10 Introduction to Human Sexuality C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 180  | + PHY- | College Physics II   |               |
| PHY-2B College Physics II C-ID PHYS 110 PHY-4A General Physics/Mechanics C-ID PHYS 205 PHY-4B General Physics/Electricity and Magnetism PHY-4C General Physics/Waves, Heat, Light and Modern Physics PHY-32 Survey of Chemistry and Physics C-ID PHYS 140 POL-1 American Political Institutions C-ID POLS 110 POL-2 C-ID POLS 130 Abroad C-ID POLS 130 Abroad Relations PSY-2 General Psychology C-ID PSY 110 PSY-6 Social Psychology C-ID PSY 110 PSY-8 Introduction to Research Methods in Psychology PSY-9 Introduction to Research Methods in Psychology (with Lab) PSY-10 PSY-10 PSY 15 Introduction to Human Sexuality C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 130 PSY-22 Abnormal Psychology C-ID PSY 120 PSY-25 Developmental Psychology C-ID PSY 180   |        | College Physics I  | C-ID PHYS 105 |
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| PSY-25 Developmental Psychology C-ID PSY 180   |        |  |               |
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| PSY-33 Personal and Social Adjustment C-ID PSY 115   |        |  |               |

### **ADDICTION STUDIES**

## AOD-1. Fundamentals of Chemical Dependency (3) Fall/Spring

Lec 54 Hrs

This course will introduce historical and sociological perspectives on the use, abuse and social control of psychoactive drugs. Students will receive overviews of the bio-psycho-social nature of the addiction; the impact of addiction on children, families and society; contemporary treatment and prevention approaches; and the

## AOD-11. Individual, Group and Family Counseling (3) Spring Only

Lec 54 Hrs

An introduction to the basic skills and techniques of counseling for chemical dependency counselors. This course describes characteristics of an effective counselor, explores several theoretical models of counseling, and assists the individual to develop skills in active listening, building trust, reflecting feelings and content, and using motivational interviewing techniques. Stages of therapy and life span issues will receive special attention. A focus of family dynamics and group processes as they relate to chemical dependency will also examined. The dynamics of chemical dependency within family systems will be explored an intervention designed to assist family members to understand and cope with chemical dependency will be examined. In addition, group processes and dynamics will be examined with an emphasis on developing skills for group leadership

[CSU]

#### AOD-99. Practicum in Chemical Dependency (4)

**Prerequisite:** AOD-1, AOD-2, AOD-3, AOD-4, AOD-5, AOD-6, AOD-9, AOD-11

Other: Students will need to meet individual screening requirements of work-site for drug testing, finger-print analysis, TB testing and/or other site requirements. Students will need to register with one of the certifying agencies well in advance of placement.

### Pass/No Pass Only

Lab 255-300 Hrs

Designed for students in their last semester of the AOD program, this course provides students with a hands-on learning experience via a directed field study. Emphasis is placed on enabling the student to experience and perform the work of a chemical dependency counselor. Students must complete at least 255 hours of volunteer experience or 300 hours of paid work experience in an approved facility to meet unit requirements and CAADAC/CCBADC accreditation standards for practicum experience. Instructor will facilitate internship/job placement and development of individualized goals.

[CSU]

#### **ADMINISTRATION OF JUSTICE**

# ADJ-1. Introduction to Administration of Justice (3) Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

Provides an overview of the American criminal justice system and the various subsystems. Focuses on the roles and role expectations of criminal justice agencies in their interrelationships in society and emphasizes the concepts of criminal law and its effect on policing, crime causation, the Constitution and its effect on law enforcement, punishment and rehabilitation. Also discusses ethics, education and training for professionalism in the social system.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID AJ 110]

## ADJ-2. Community Relations and the Justice System (3) Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

A theoretical and conceptual overview of multicultural issues, including those relating to ethnicity, race relations, gender, age and sexual preference. The course focuses on cultural/ethnic groups in California and their relationship with law enforcement and justice administration, including courts and corrections. Explores the interaction of the criminal justice agents and the community; theoretical and conceptual overview of multicultural issues affecting human relations; effects of prejudice, bias, and discrimination; awareness of individual and cultural differences affecting human interaction and peacekeeping strategies in a diverse society.

[CSU; UC] [C-ID AJ 160]

#### ADJ-3. Concepts of Criminal Law (3)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

An introduction to the legal system, the differences between civil and criminal law, the sources of law, and the court system. The course focus will be classifying, defining, and identifying crimes. Also explores defenses to crimes, and parties to crimes.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID AJ 120]

#### ADJ-4. Criminal Evidence (3)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

An introduction to the legal system, the sources of law, the criminal court system, and the trial process. The course focuses in particular on the classifications and rules of evidence. Includes a thorough overview of legal issues in criminal evidence such as admissibility, constitutional protections including the Fourth Amendment, and the burden of proof. Also covered are general considerations in evidence such as inferences and presumptions, privilege, judicial notice, expert testimony, scientific, and demonstrative evidence.

[CSU] [C-ID AJ 124]

#### ADJ-5. Criminal Court Process (3)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

An introduction to the sources of law, the legal system, the criminal court trial process, the purposes of punishment, and participants in the criminal justice system. An in-depth analysis of the Constitution and its relationship to criminal procedure. Explores the laws of search, arrest, interrogation, arraignment, preliminary hearing, motion practice, trial procedure, sentencing, and post-conviction remedies.

[CSU] [C-ID AJ 122]

#### ADJ-8. Criminal Investigation (3)

Pass/No Pass Option Fall/Spring

**Lec** 54 Hrs

A course designed to teach the fundamentals of investigation; crime scene preservation of evidence; scientific aids; modus operandi; sources of information, interviews and interrogation; ethical challenges; surveillance; follow-up and case preparation; constitutional issues; and the role of the investigator in the trial process.

[CSU] [C-ID AJ 140]

#### ADJ-10. Juvenile Procedures (3)

Pass/No Pass Option Fall/Spring

Lec 54 Hrs

Discussion of the theories of juvenile delinquency and juvenile justice. Introduction to the functions, organization and jurisdiction of juvenile agencies. Study of juvenile crime, laws and social issues relating to youthful offenders. Examination of child abuse, domestic violence and gang membership. Examination of the Law Enforcement responses to juvenile issues.

[CSU] [C-ID AJ 220]

#### ADJ-11. Law Enforcement Report Writing (3)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

An introductory course emphasizing the practical aspects of organizing and preparing law enforcement written reports. **[CSU]** 

### ADJ-21A. Narcotics and Dangerous Drugs (3)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

History, definition, identification, characteristics and treatment strategies of legal and illegal drugs and the enforcement of laws relating to them.

[CSU]

ADJ-25.

## ADJ-33. Constitutional Law for Criminal Justice Professionals (3)

Pass/No Pass Option Spring Only

Lec 54 Hrs

Focuses on the United States Constitution and its relevance to criminal justice issues. Beginning with an overview of our legal system and some instruction in basic legal research, the course examines constitutional amendments influencing the criminal justice system such as freedom of speech and the press, gun control, constitutional search and seizure, the exclusionary rule, due process of law and confessions, the right to counsel and a fair trial, bail, fines, and punishment. Students will also appraise the impact of constitutional principles in the fields of law enforcement, corrections, and the practice of law.

[CSU]

### ADJ-34. Civil Litigation (3)

Pass/No Pass Option Spring Only

Lec 54 Hrs

Students will gain a fundamental understanding of how to prepare a civil case for trial. Topics include California procedural statutes and court rules governing civil litigation, the attorney-client relationship, court organization, the steps in case preparation, and the post-litigation concerns. Students will practice client interviewing, drafting of pleadings and motions, deposition summaries, evidence gathering and discovery procedures.

[CSU]

## ADJ-36. Legal Research and Writing (3) Pass/No Pass Option

Lec 54 Hrs

This course provides an overview of the fundamentals of legal research and writing. Topics include online legal research, law library references such as Shepard's Citations, West Digest system and key numbers, American Law Reports, legal periodicals, and annotated state and federal statutes. The course also focuses on the development of written communication skills essential to any law-related correspondence, memoranda, pleadings, motions, and discovery documents.

[CSU]

#### ADJ-51. Criminology (3)

Pass/No Pass Option Fall/Spring

Lec 54 Hrs

An examination of the theories of the psychological and social factors underlying crime and criminal behavior, crime statistics, patterns of antisocial behavior, treatment and preventative measure.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID SOCI 160]

#### ADJ-76. Introduction to Forensics (3.5)

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs; Lab 27 Hrs

Overview of forensic science in collecting and evaluating evidence as a component of the criminal justice system. This course provides an introduction to the role of forensics and criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents, and controlled substances.

[CSU] [C-ID AJ 150]

### ADJ-102. PC 832 Arrest and Firearms (3.5)

**Prerequisite:** prior to the start of ADJ-102, the California Commission for Peace Officers Standards and Training (POST) and the California Penal Code 1311.5 requires from each student Department of Justice written certification stating that the student has no criminal history that would disqualify him/her from using a firearm.

Pass/No Pass Option

Fall/Spring

Lec 49.5 Hrs; Lab 41 Hrs

Designed to satisfy the curriculum standards of the Commission on Peace Officer Standards and Training (POST) as required by Penal Code 832 for peace officers. Topics include: professional orientation; introduction to criminal law with particular attention paid to laws of arrest, evidence, search and seizure; investigation; community relations; verbal and written communication; arrest and control techniques; firearms; cultural diversity/discrimination, the use of firearms, situational use of deadly force, and arrest techniques. There will be a fee associated with the fingerprint clearance from the Department of Justice that is required prior to starting the firearms portion of the class.

### ADVANCED AUTOMOTIVE TECHNOLOGY

## AAT-100. Introduction to Automotive Repair (4) Fall/Spring

Lec 36 Hrs; Lab 108 Hrs

An introduction to automotive mechanics and technology for students beginning study as an automotive technician or who desire in-depth knowledge regarding today's automobiles. Covers principles of operation and system servicing procedures for systems found on today's cars. Provides instruction in shop and personal safety, proper use of tools and equipment, completion of basic service and analysis procedures, and review of repairs and specifications from computer-based service manuals. Formerly AUT-50. Not open to students who have completed AUT-50 with a grade of "C" or better.

## AAT-101. Engine Repair (4)

### Spring Only

Lec 36 Hrs; Lab 108 Hrs

Students will learn principles of operation, system service procedures for systems found in today's automotive engines. Course will emphasize shop and personal safety, proper use of hand and precision engine measurement tools, operation of general shop equipment, research to locate pertinent information to perform

#### AAT-140. Brake Systems (4)

Fall Only

Lec 36 Hrs; Lab 108 Hrs

Course covers theory of brake systems, and provides hands-on experience in the service and repair of conventional ABS brake systems. Automotive repair exercises develop skills with equipment commonly used in servicing automotive brake systems. Students will learn to identify and interpret brake system concerns; determine necessary repair action; research applicable vehicle and service information, such as brake system operation, vehicle service history, service precautions, and technical service bulletins. Formerly AUT-71. Not open to students who have completed AUT-71 with a grade of "C" or better.

#### AAT-141. Steering & Suspension Systems (4)

Spring Only

Lec 36 Hrs; Lab 108 Hrs

Course covers toe, camber, caster, axle inclination, turning radius, and axle alignment affecting tire wear, directional stability and handling; inspection and adjustment of manual steering gear, preload and backlash. Additionally, course content analyzes the power steering system, operation of an electronically variable power steering system, tire and wheel theory and service, hydraulic shock absorbers and McPherson strut suspensions theory. Formerly AUT-83. Not open to students who have completed AUT-83 with a grade of "C" or better.

#### AAT-150. Manual Transmission and Drive Train (4)

Advisory: AAT-101 Spring Only

Lec 36 Hrs; Lab 108 Hrs

A comprehensive study of power drivetrain systems found in automotive vehicles. Topics the class will cover include: drive train theory, drive trains and axles, clutches, front-wheel drive (FWD), rear-wheel drive (RWD) and four-wheel drive (4WD); manual transmissions systems; drive shafts and universal joints; differentials and drive train axles; drive train electrical and electronic systems. Formerly AUT-81. Not open to students who have completed AUT-81 with a grade of "C" or better.

#### AAT-151. Automatic Transmission (4)

Prerequisite: AAT-120 with a grade of "C" or better

Fall Only

Lec 36 Hrs: Lab 108 Hrs

Covers automatic transmission drive train theory, fundamentals and repair; electronic controls; transmission designs; torque converters and oil pumps; hydraulic circuits and controls; gears and shafts, as well as reaction and friction units. Formerly AUT-82. Not open to students who have completed AUT-82 with a grade of "C" or better.

#### **ADVANCED DIESEL TECHNOLOGY**

#### ADT-100. Diesel Engine Technology (4)

**Advisory:** Beginning Algebra or equivalent or placement beyond.

ADT-111. Electrical Systems and Controls (4) *Advisory:* 

## ABT-81. Integrated Pest Management Principles in Entomology (3)

Fall Only - Odd Years

Lec 36 Hrs; Lab 54 Hrs

Introduction to insects and mites of economic importance to agriculture. Covers the morphology, taxonomy, identification, life cycles, hosts, habitat relationships, and control methods of insects of economic importance. Collection and labeling of specimens will be required. Field trips required.

[CSU]

## ABT-82. Integrated Pest Management Principles in Weed Science (3)

Advisory: BIO-10 or ABT-92 strongly advised.

Spring Only - Odd Years

Lec 36 Hrs; Lab 54 Hrs

Introduction to the classification, identification, and life cycle of common and poisonous weeds in California which are detrimental to cultivated crops, grasslands, animals, and humans. Management practices include: prevention, mechanical, biological, and chemical methods. Weed establishment and chemical resistance are also covered. Collection and labeling of specimens are required. Field trips required.

[CSU]

## ABT-83. Integrated Pest Management Principles in Plant Pathology (3)

**Advisory:** ABT-92 or completion of any college-level biology course, with a grade of "C" or better, is strongly recommended.

Fall Only - Even Years

Lec 36 Hrs; Lab 54 Hrs

This course is a study of agents, disease cycles, symptomology, and management of plant diseases. Management practices include prevention, cultural, chemical, and biological methods.

[CSU]

#### ABT-90. Soil Science (3)

Fall/Spring

Lec 36 Hrs; Lab 54 Hrs

Provides a basic knowledge of the genetic, physical, chemical, and biological properties of soils. Explores principles involved in the interpretation of soils information for land use management, (including agricultural production and non-agricultural uses), and conservation. Includes a weekly laboratory activity.

[CSU; UC; CSU-GE, AREA B1, B3; IGETC, AREA 5] [C-ID AG PS-128L]

#### ABT-92. Plant Science (3)

Fall/Spring

Lec 36 Hrs; Lab 54 Hrs

An introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants.

[CSU; UC; CSU-GE, AREA B2, B3; IGETC, AREA 5] [C-ID AG-PS 106L]

#### ABT-93. Product Processing & Cooling (3)

Fall Only

Lec 54 Hrs

Introduction to the specializations of post-harvest technology and cold chain management. Focuses on post-harvest handling, processing and cooling of fresh vegetable and fruit products as well as the cooling systems and equipment involved. Topics include post-harvest biology and physiology, harvesting systems, preparation for the fresh market, packaging, cooling systems and product processing. Food safety and sanitation will be introduced. **[CSU]** 

### ABT-94. Agriculture Enterprise Project (2)

**Advisory:** Students should have some basic familiarity with safe farming practices.

Fall Only

Lec 18 Hrs; Lab 54 Hrs

Students will gain practical field experience in vegetable or horticultural crop production. Projects may be developed with an emphasis on organic or conventional production systems. Working cooperatively in small groups, students will learn to develop a small scale production plan and complete the entire production cycle. Field projects will include exposure to the entire range of field operations: ground preparation, planting, irrigation, fertility management, pest management, and harvest. Greenhouse projects will include exposure to a complete cycle of greenhouse operations: planting, climate control systems, irrigation systems, fertility management, pest management, and sale or harvest of the finished crop. Designed for students with a high level of commitment to agriculture.

[CSU]

## ABT-95. Introduction to Small Fruit Science (3) Spring Only - Even Years

Lec 36 Hrs: Lab 54 Hrs

This course covers the botany, taxonomy, and plant development of small fruit crops in California including variety selection, climatic requirements and culture, production practices including site selection, establishment, fertilization, pollination, irrigation, harvest, storage, processing, marketing, pest management, and pruning. Laboratory required.

[CSU]

#### ABT-96. Vegetable Crop Production (3)

#### Fall Only - Odd Years

Lec 36 Hrs; Lab 54 Hrs

Involves the study of vegetable production covering the botany, cultural aspects, harvesting, processing, growth characteristics, fertility, pests, and marketing of the major vegetable crops of the Central Coast and throughout California.

[CSU]

## ABT-97. Vineyard Production and Management (3) Fall Only

Lec 36 Hrs; Lab 54 Hrs

Provides a through overview of the production and management practices of grapes with an emphasis on California wine grapes and berry products. Topics will include climate zones, soil selection, financing, farm organization, irrigation systems, field layout, varietal selection, nutritional needs, harvesting, and labor management, marketing, and budgeting. Includes a brief introduction into winemaking process.

[CSU; UC]

#### ABT-98. Fertilizers and Plant Nutrition (3)

### Spring Only - Odd Years

Lec 36 Hrs; Lab 54 Hrs

Covers the composition, selection, efficacies, and proper application methods of fertilizer materials and soil amendments. Includes fertilization and amendment materials for conventional and organic agriculture production systems. Soil, plant, and fertilizer relationships will be covered. Application practices currently being used in California will be emphasized.

[CSU]

## ABT-99. Occupational Cooperative Work Experience Education (1 - 8)

#### Fall/Spring

Designed for students employed or volunteering to assist them in the development of skills and responsibilities related to the work environment. Structured objectives are developed and agreed upon by the student, college instructor, and employer. Students are eligible to earn 1 unit for 60 hours of volunteer work or 75 hours of

paid work. A maximum of 8 units[(Fe 2.8e5 0.0019 Tw 9nt,)y-6.6 (eonsi)-up 0019 Tw -0.0018 Tw 4.2724.25647[848 0 0 9 unit Td [(Ed [(Fe 2315.18 Tm 8j /TTu

## ABT-105. Marketing Opportunities and Growth for Organic Farming (1.5)

Spring Only

Lec 18 Hrs; Lab 27 Hrs

Intended for Agriculture Production majors and entrepreneurial students with interest in organic farming operations and organic production methods. Covers the marketing and sales options for organic produce with a focus on diverse marketing options available to small growers. Students will research the advantages and disadvantages of different marketing channels, sales strategies, and pricing in a growing vegetable market that will be summarized into a presentation.

## ABT-110. Careers in Agriculture and Technology (2) Fall Only

Lec 36 Hrs

Introduction to educational opportunities and career development in agriculture and related fields. Includes portfolio and educational plan development and curriculum requirements that pertain to educational goals as they relate to agriculture majors. Assists students in setting goals and developing interpersonal and intrapersonal skills necessary for life-long success in obtaining, maintaining, and advancing in agriculture careers. Current events that impact agriculture and society will be discussed.

## ABT-130. Introduction to Food Safety (1.5)

Fall/Spring

Lec 27 Hrs

An introductory course in food safety for those in agriculture majors and others interested in exploring career options. Covers conditions and practices that cause food borne illnesses, organisms responsible, elements of a food safety control system, worker sanitation, an introduction to best practices at the processing, retail and home kitchen. Field trips may be required.

#### ABT-131. Agricultural Practices for Food Safety (1.5)

**Prerequisite:** ABT-130 with a grade of "C" or better. **Spring Only** 

Lec 27 Hrs

Focuses on establishing agricultural practices as they relate to the production of farm products from a food safety standpoint. Covers the specific guidelines for some key agricultural commodities, regulating and monitoring food safety guidelines, writing standard operating procedures, employee training, and technologies to assist in production of safe food. Field trips may be required.

#### ABT-132. Food Safety Management (1.5)

**Prerequisite:** ABT-130 with a grade of "C" or better. **Spring Only** 

Lec 27 Hrs

Covers the creation and documentation of key elements in a food safety program including: evaluating current practices, creating and implementing key aspects within a food safety program,

## ABT-160. Introduction to Agriculture (3)

### Fall Only

Lec 54 Hrs

A survey of agriculture products and the businesses that produce, service, and supply those products. Focuses on Central Coast fresh vegetable, viticulture and berry production. A broad view of California, United States, and world production will also be covered. The skill sets required in those businesses will be discussed. Surveys some of the career choices in the agriculture specialty areas.

## ABT-258. Agriculture Ambassadors (2) Spring Only

Lec 18 Hrs; Lab 54 Hrs

Agriculture leadership training through application of individual and group leadership techniques. Requires participation as an Agriculture Ambassador team member in college recruitment activities, including giving recruitment presentations at off campus sites, hosting prospective student groups for on-campus visitations, and sponsoring recruitment activities for the local Agriculture industry.

#### ANT-10. Indigenous Cultures of California (3)

Advisory: Eligibility for ENG-1A

Fall Only Lec 54 Hrs

A survey of the native societies of California through an overview of their cultural evolution from pre-contact to historic periods. It is designed to fit the needs and interests of both beginning anthropology majors and general education students.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4]

## ANT-20. Mesoamerica: Cultures and Civilizations of Mexico and Central America (3)

Advisory: Eligibility for ENG-1A

Spring Only Lec 54 Hrs

This course offers a survey of the Mesoamerican cultures and civilizations of Mexico and Central America as presented by the archaeological, historical and ethnographic information of the area. Covering the periods from the early hunting and gathering societies through the development of farming villages and civilizations, this course provides an overview of the principal civilizations, the Aztec and Maya, at the time of European contact and the aftermath of the Spanish conquest to fully comprehend the stage of contemporary indigenous cultures of Mexico and Central America. It is intended for both beginning anthropology majors and general education students.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4]

#### **APPRENTICESHIP**

#### APP-120. 1st Year Commercial Electrical Appr I (4)

**Advisory:** Successful completion of: one full credit of high school algebra with a passing grade, or one post high school algebra course (e.g. Adult Education, Continuing Education,

O Community College, etc.) with a passing graidecsobisatesEast(u2st58T)]N 4.373 -0\$Hats .24.58-0Lab46.3(73br0sucacoffgrtath(1C9TzF-3-8.5-)STj1.483807)t0)118d8

#### APP-125. 3rd Year Commercial Elec App II (4)

Prerequisite: APP-124 with a grade of "C" or better and Student is a registered State indentured apprentice Other: Section 3074.3 of the State Labor Code authorizes limitation of this course to students who have been accepted into the Inside Apprenticeship program of the Tri-County Electrical JATC.

Lec 72 Hrs

Second semester of the third year in the five-year Commercial/Industrial Bectrical Apprenticeship Program leading to Journeyman Bectrician certification in the electrical construction industry.

#### APP-126. 4th Year Commercial Electrical Apprentice I (4)

Prerequisite: APP-125 with a grade of "C" or better and Student is a registered State indentured apprentice.

Other: Section 3074.3 of the State Labor Code authorizes limitation of this course to students who have been accepted into the Inside Apprenticeship program of the Tri-County Electrical JATC.

Lec 72 Hrs

First semester of the fourth year in the five-year Commercial/Industrial Bectrical Apprenticeship Program leading to Journeyman Bectrician certification in the electrical construction industry.

#### APP-127. 4th Year Commercial Electrical Apprentice II (4)

Prerequisite: APP-126 with a grade of "C" or better and Student is a registered State indentured apprentice.

Other: Section 3074.3 of the State Labor Code authorizes limitation of this course to students who have been accepted into the Inside Apprenticeship program of the Tri-County Electrical JATC.

Pass/No Pass Option

Lec 72 Hrs

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APP-128. 5th Year Commercial Electrical Apprentice I (4) : Atrician c28 Tection ) l&cr and Student is a regntice.

Other:

into the hside Apprenticeship program of the Tri-County Electrical ATC. Pass/No Pass Option Lec

## ART-6A. Watercolors and Gouache (3)

Fall/Spring

Lec 36 Hrs; Lab 72 Hrs

The development of ideas, theory and techniques as applied to

## ART-70. Introduction to Graphic Design and Computer Graphics (3)

Fall Only

Lec 36 Hrs; Lab 54 Hrs

The study and application of the fundamentals of graphic design

including histo-,-4.8 (c(tv68 (ationTD (Lec )nSaeTw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s3 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s4 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s4 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1 -0a0.0022 Tc 0.3003 Tw 7.0e4di.43 T6s )Tj s4 (ing)-o[(fund)-ce3e7D-4. cour)8-8.1se br6 (sphigeth)8-8.1se br

## ART-78. Motion Graphics & Design Principles (3) Spring Only

Lec 36 Hrs; Lab 54 Hrs

Motion graphics is a form of visual communication used for a variety of applications such as film, television, web, communication design, branding and advertising. This course introduces students to the principles and aesthetics of motion graphics. Students will conceptualize, design and produce visual communication solutions using kinetic and time-based design techniques. Students will experience the process of project management as it applies to a motion graphic project. Students will create and construct original motion graphics projects with vect

#### AST-1L. Astronomy Laboratory (1)

Corequisite: AST-1

Other: Completion of or concurrent enrollment in AST-1 is

required. **Lab** 54 Hrs

Laboratory course in astronomy that uses a combination of experiments, NASA data, and computer software to teach the basic principles and methods of modern astronomy. Students will make their own measurements and use astronomical data to identify objects in the night sky and to learn about the properties of light, telescopes, stars, and galaxies. A field trip to an observatory and extensive use of the digital Planetarium is included.

[CSU; UC; CSU GE, AREA B3; IGETC, AREA 5]

#### **BIOLOGY**

#### **BIO-1. Fundamental Biological Concepts (5)**

**Prerequisite:** Intermediate Algebra or equivalent or placement beyond, CHM-1A and BIO-101 with a grade of "C" or better.

Lec 54 Hrs; Lab 108 Hrs

An introduction to the study of the structure and function of living systems with an emphasis on the molecular and cellular levels of organization and the roles of DNA, genetics and evolution as the unifying concepts of biology. Recommended for biology, premedical, pre-dental and pre-veterinary majors.

[CSU; UC; CSU-GE, AREA B2, B3; IGETC, AREA 5] [C-ID BIOL 190] [C-ID BIOL 135S with BIO-2 and BIO-3]

#### BIO-2. General Zoology (5)

**Prerequisite:** Intermediate Algebra or equivalent or placement beyond, BIO-101 with a grade of "C" or better.

Advisory: A college-level biology course.

Lec 54 Hrs; Lab 108 Hrs

An introduction to the study of animals and their diversity of form and function. An emphasis will be made on comparative morphology, physiology and behavior and on the application of evolutionary and ecological principles to animal populations. This course will also explore the historical development of animal sciences and current innovations in zoological research. Laboratory and field activities will introduce students to methods of systematics and ecological study and to the diversity of the animal groups.

[CSU; UC; CSU-GE, AREA B2, B3; IGETC, AREA 5]

[C-ID BIOL 140 with BIO-3]

[C-ID BIOL 135S with BIO-1 and BIO-3]

#### BIO-3. General Botany (5)

**Prerequisite:** Intermediate Algebra or equivalent or placement beyond, BIO-101 with a grade of "C" or better.

Advisory: A college-level biology course.

Lec 54 Hrs; Lab 108 Hrs

An introduction to the principles of plant biology with emphasis on their structure, reproduction, genetics, taxonomy and systematics,

physiology, and ecology. Required for biology majors. [CSU; UC; CSU-GE, AREA B2, B3; IGETC, AREA 5] [C-ID BIOL 155] [C-ID BIOL 140 with BIO-2] [C-ID BIOL 135S with BIO-1 and BIO-2]

#### BIO-5. Human Anatomy (4)

Advisory: Eligibility for ENG-1A or ENG-1AX (C-ID ENGL 100) Intermediate Algebra or equivalent or placement beyond (C-ID MATH 110, 120, 130, 140, 150, 151), Completion of general

[C-ID BIOL 155] [C-ID BIOL 140 with BIO-2]

### BIO-6L. Physiology Laboratory (2)

Corequisite: BIO-6 Lab 108 Hrs

An introduction to the laboratory study of the structure and function of human systems with an emphasis on the collection and analysis of chemical and physical data which relate to the concept of homeostasis in the human body. Recommended for health-related certificate programs, physical education, biology, pre-med, predental, and pre-veterinary majors.

[CSU; UC; CSU-GE, AREA B3; IGETC, AREA 5]

[C-ID BIOL 120B with BIO 6]

#### BIO-10. General Biology (4)

Lec 54 Hrs; Lab 54 Hrs

An introduction to the principles of general biology with emphasis on diversity, morphology, cellular and organismal physiology, heredity, evolution, and ecology of living organisms. This is a general education course intended for students not majoring in biology. If this course is taken online, proctored exams will be required, either at Hartnell College or at an approved remote site. If the exam is to be administered offsite, it is the student's responsibility to arrange for the site and proctor, provide contact information for the proctor

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#### BIO-47. Ecology (4)

Lec 54 Hrs; Lab 54Hrs

Introduction to the relationships between organisms and their environments. Emphasis on habitats, organismal biology, energy flow, nutrient cycles, natural populations, communities, and human interactions with natural ecosystems. Field trips will be scheduled. Recommended for anyone who desires a general knowledge and appreciation of ecosystems. Students should consult transfer agreements to determine whether the course fulfills a requirement for an environmental studies program at a specific university.

[CSU; UC; CSU-GE, AREA B2, B3; IGETC, AREA 5]

#### BIO-48. Environmental Science (3)

Lec 54 Hrs

An introductory and multidisciplinary study of our environment from a scientific perspective, focusing on physical, chemical, and biological processes within the Earth system. Emphasis is on the impact of human population and policies in regard to air, water, land use, resources, and waste management and the role of science in finding sustainable solutions. If this course is taken online, proctored exams will be required, either at Hartnell College or at an approved remote site. If the exam is to be administered offsite, it is the student's responsibility to arrange for the site and proctor, provide contact information for the proctor to the instructor, and obtain consent for this arrangement from the instructor prior to the exam date.

[CSU; UC; CSU-GE, AREA B2; IGETC, AREA 5] [C-ID ENVS 100]

#### BIO-48L. Environmental Science Laboratory (1)

Corequisite: BIO-48
Pass/No Pass Option

Lab 54 Hrs

Introduction to the study of the environment through hands-on field and laboratory experiments. Emphasis on ecological principles, populations, natural resources, energy use, and lifestyle choices.

[CSU; UC; CSU-GE, AREA B3; IGETC, AREA 5]

#### BIO-101. Foundations of Biology (1)

Pass/No Pass Option

Lec 9 Hrs; Lab 27 Hrs

A brief but intensive introduction to essential laboratory skills used in the study of biology; basic concepts in arithmetic, chemistry, and classification of living organisms; and review of study skills. Designed to help students succeed in their study of biology. Students must successfully complete this course before attempting their first biology major class.

#### **BUSINESS**

#### BUS-1A. Financial Accounting (3)

**Advisory:** Completion of BUS-152 and BUS-32. Intermediate Algebra or equivalent or placement beyond.

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

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

[CSU; UC] [C-ID ACCT 110]

### **BUS-1B.** Managerial Accounting (3)

Prerequisite: BUS-1A with a grade of "C" or better.

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

This is the study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments.

[CSU; UC] [C-ID ACCT 120]

#### BUS-18. Legal Environment of Business (4)

Pass/No Pass Option

Fall/Spring

Lec 72 Hrs

Provides the student with a comprehensive understanding of the law and its relationship to business. An introduction to the sources of law, the legal system, the court system, antitrust law, administrative agencies, and business ethics. Content includes business torts and crimes, contracts, agency, employment discrimination, business organization formats, the legal aspects of partnerships and corporations, securities regulation, and domestic and international governmental relations.

[CSU; UC] [C-ID BUS 120]

#### **BUS-32. Introduction to Business (3)**

Pass/No Pass Option

Fall/Spring

Lec 54 Hrs

A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the securities market; and therefore, affect a business' ability to achieve its organizational goals.

[CSU; UC; CSU-GE, AREA D2] [C-ID BUS 110]

### BUS-34. Entrepreneurship: Small Business Management (3) Pass/No Pass Option

Lec 54 Hrs

Introduces students to the risks and rewards of entrepreneurship. Illustrates the functions of small business management by surveying the concepts of organizing, planning, financing, staffing, marketing and operations. Students will engage in the process of developing a business plan to build practical knowledge and skills to effectively organize the resources required to own and/or manage a small business.

[CSU]

#### **BUS-42. Electronic Spreadsheets (3)**

Pass/No Pass Option Fall Only

Lec 36 Hrs; Lab 54 Hrs

A full-featured spreadsheet application course offering core and advanced concepts. Emphasis is on creating formulas, using relative and absolute references, editing and formatting, working with templates and chart wizards, using IF functions, sorting and filtering records, creating pivot tables, and integrating with MS Office Suite programs (MS Word).

[CSU]

## BUS-43. Business Information Systems and Information Literacy (4)

Pass/No Pass Option Fall/Spring

Lec 54 Hrs; Lab 54 Hrs

Examination of business information systems and their role in business. Focus on business information systems, database management systems, networking, e-commerce, ethics and security, information processing cycle, and associated hardware and software. Skill development in the use of business application software and the use of technology tools for research. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems. Not open to students who have completed CSS-43 with a grade of "C" or better.

[CSU; UC] [C-ID BUS 140]

### **BUS-50.** Introduction to PC Applications (4)

**Advisory:** Keyboarding speed of 25 words a minute recommended

Pass/No Pass Option Fall/Spring

Lec 63 Hrs; Lab 27 Hrs

An introduction to computer hardware, operating systems, application software (word processing, spreadsheet, database, presentation, and e-mail), and the Internet. This course is designed for students with limited or no knowledge of computer applications. Not open to students who have completed BUS-109 or CSS-109 with a grade of "C" or better.

[CSU; UC]

## BUS-100. Introduction to Basic Computer Applications (0.5 -2)

Pass/No Pass Only

Lab 24-108 Hrs

Provides instruction on computer application programs in a lab environment. Designed to develop and improve computer skills in word processing, spreadsheet, presentation software, and database management using Microsoft Office. Students will consult with an instructor regarding the scheduling of their hours and the computer application skills they wish to acquire and/or improve. This course may be taken for up to a total of 2 units.

#### BUS-110A. Beginning Keyboarding (1)

Pass/No Pass Only

Lab 54 Hrs

Introduction to keyboarding and basic techniques using the touch system on the computer. Not open to students who have completed BUS 110, 111, 140A, or 140B with a grade of "C" or better.

## BUS-110B. Beginning Formatting and Document Processing (1)

Corequisite: BUS-110A Pass/No Pass Option

Lab 54 Hrs

Basic document processing using the touch system. Emphasis on speed and accuracy on straight copy. Includes proper formatting procedures in the preparation of business letters, memos, tables, and reports using a word processing program. Not open to students who have completed BUS 110.

#### BUS-111A. Intermediate Keyboarding (1)

Prerequisite: BUS-110A with a grade of "C" or better

Pass/No Pass Option

Lab 54 Hrs

Continued improvement of keyboarding speed and accuracy by "touch".

## BUS-111B. Intermediate Formatting and Document Processing (2)

Prerequisite: BUS-110 with a grade of "C" or better or

BUS-110B with a grade of "C" or better

Pass/No Pass Option Spring Only

Lec 18 Hrs; Lab 54 Hrs

Continued development of formatting techniques used in business documents (letters, reports, tables, and forms). Emphasis on organizing materials, establishing work priorities, and determining efficient office.

## **BUS-135 Professional Office Skills (4)**

Fall Only

Lec 72 Hrs;

Comprehensive introduction to modern office and personal skills; emphasis on communication, teamwork, problem solving, and professionalism; includes personal and professional finance management.

### **BUS-136 Introduction to Personal Management**

Software (1)

Pass/No Pass Option

Spring Only

Lab 54 Hrs

Introduces personal management software and use of features. Topics include management of e-mail, organization of contacts, creation and scheduling of events using the calendar, and creating and managing tasks for personal and business use.

#### BUS-140A. Keyboarding Speed and Accuracy (0.5)

Advisory: BUS-110 and/or BUS-110A.

Pass/No Pass Option

Lab 27 Hrs

Emphasizes speed and accuracy improvement on straight-copy material. Students may enroll at any time during the first half of the semester. Students will progress at an individual pace.

#### BUS-140B. Keyboarding Speed and Accuracy (0.5)

Prerequisite: BUS-140A with a grade of "C" or better.

Pass/No Pass Option

Lab 27 Hrs

Continuation in the development of keyboarding skills focusing on speed and accuracy improvement on straight-copy material.

## BUS-610. Introduction to the Internet and Email (0) Pass/No Pass Only

Lab 27 Hrs

This introductory course provides the basic applications of the internet and electronic mail. Topics include browsing and researching on the World Wide Web using various search engines, popular websites, tips and techniques to obtain specific information. Email basics include the use of a web-based account, sending/receiving messages and attachments, email etiquette, and email management.

#### **CHEMISTRY**

#### CHM-1A. General Chemistry I (5)

**Prerequisite:** Intermediate Algebra or equivalent or placement beyond, Students may complete a prerequisite

## CHM-60. Principles of Chemistry (4)

Advisory: Beginning Algebra or equivalent or placement

#### COM-8. Interpersonal Communication (3)

**Advisory:** Eligibility for ENG-1A or ENG-1AX **Fall/Spring Lec** 54 Hrs

This course explores interpersonal communication elements including listening, perception, language usage, non-verbal communication, and conflict management. Students will learn new skills to overcome communication barriers and enhance their interpersonal relationships, including friendship, family, romantic, small group and workplace. Not open to students who have completed SPE-8 with a grade of "C" or better.

[CSU; UC; CSU-GE AREA D; IGETC, AREA 4] [C-ID COMM 130]

## COM-700. Interpersonal Communication for Healthcare Professionals (3)

**Prerequisite:** Admission to the Bachelor of Science in Respiratory Care **Lec** 54 Hrs

Designed for upper division students in the Respiratory Care baccalaureate program. Focused on collaborative and culturally sensitive communication with colleagues and patients to promote dynamic and engaging healthcare related professional settings. Exploration of self-awareness, listening, non-verbal communication, communication environment, and communication misperceptions will guide learning. An emphasis on culturally competent communication will help students acknowledge and dismantle biases that hinder the patient-caregiver relationship.

### **COMPUTER**

#### CSS-7. Discrete Structures (4)

Prerequisite: CSS-2A with a grade of "C" or better.

Advisory: MAT-25 Pass/No Pass Option Spring Only

Lec 54 Hrs; Lab 54 Hrs

Introduction to the mathematical elements of computer science. Topics include propositional logic, predicate logic, sets, functions and relations, combinatorics, mathematical induction, recursion, algorithms, matrices, graphs, trees and Boolean logic. This course is recommended for students considering Computer Science and Computer/Software Engineering majors.

[CSU; UC] [C-ID COMP 152]

#### CSS-25. Multimedia Integration (3)

#### Pass/No Pass Option

Lec 36 Hrs; Lab 54 Hrs

A focus on the integration of various forms of media used to create a multimedia object. Basic concepts such as text, audio, video, and user interface will be examined. Technical and design principles will be covered. Students will develop the appropriate skill necessary to integrate and apply multiple applications to include online design, mobile devices, and multimedia projects.

[CSU]

#### CSS-26. Dreamweaver (4)

#### Pass/No Pass Option

Lec 54 Hrs; Lab 54 Hrs

A focus on the student's use of Dreamweaver, web authoring, and its accompanying components to construct complex web projects and its versatile uses for the Internet. Subjects to be covered are website design, content creation, and editing. Maintaining websites including JavaScript, image maps, mobile website design and other complex components of Dreamweaver and web authoring. Formerly CSS-126. Not open to students who have completed CSS-126 with a grade of "C" or better.

[CSU]

## CSS-27. Project Management Using Microsoft Project (4) Pass/No Pass Option

Lec 54 Hrs; Lab 54 Hrs

This course will teach students project management using a handson approach to working with clients using Microsoft Project. Students will learn to work collaboratively with peers from the

## CSS-52. Enterprise Networking, Security, and Automation: CCNA 3 (4)

Prerequisite: CSS-51 with a grade "C" or better.

Pass/No Pass Option Lec 54 Hrs; Lab 54 Hrs

Describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure and troubleshoot routers and switches and resolve common issues with single and multi-area OSPF in both IPv4 and IPv6 networks. It is the third course of a three-course sequence that prepares students for the CCNA exam. Not open to students who have completed CSS 120D with a grade of "C" or better.

[CSU]

#### CSS-53. Computer Security Principles (4)

Advisory: CSS-169 Lec 54 Hrs; Lab 54 Hrs

Covers the essentials of computer and network security. Includes security objectives and the role of policy deployment while practicing to defend against network attacks. Additional topics: cryptography, public key infrastructure, standards and protocols, impact of physical security on network security, infrastructure security, remote access, wireless and instant messaging, intrusion detection and network baselines. Coverage of CompTIA's Security-which focuses on best practices, roles, and responsibilities of security experts, is integral to the course. Not open to students who have completed CSS 122 with a grade of "C" or better.

[CSU]

#### CSS-54. Network Security Principles (4)

Advisory: CSS-50 Pass/No Pass Option Lec 54 Hrs; Lab 54 Hrs

Provides an in-depth exploration of the essentials of computer network security. Configures and implements security tools and techniques to guard against network attacks, implement intrusion prevention, and manage secure networks. Examines networked systems and applications, analyzing how they must be designed, implemented, deployed, and maintained in a secure fashion. Not open to students who have completed CSS 123 with a grade of "C" or better.

[CSU]

#### CSS-55. Systems and Network Administration (4)

Advisory: CSS-169 Pass/No Pass Option Lec 54 Hrs; Lab 54 Hrs

This course will provide a student with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment. Not open to students who have completed CSS 124 with a grade of "C" or better.

[CSU] [CID IT IS 155]

#### CSS-56. Storage Management and Virtualization (4)

Advisory: CSS-169
Pass/No Pass Option
Lec 54 Hrs; Lab 54 Hrs

An overview of storage management and management concepts and administration, including tasks and operations involved in the daily management and ongoing support of a network. Additionally, characteristics and limitations of current storage architectures is presented, paired with discussion and implementation in a virtualized environment. Hands-on experience is provided for familiarization with networking and virtualization configurations. Not open to students who have completed CSS 125 with a grade of "C" or better.

[CSU]

### CSS-57. Introduction to UNIX/Linux (3)

Advisory: CSS-169 Pass/No Pass Option Lec 45 Hrs; Lab 27Hrs

An introduction to UNIX/Linux Operating Systems. Provides a technical overview of file and directory manipulation, access permissions, process control, networking, security, shell commands and shell programming, including hands-on experience with commands, files and tools. Prepares students for the CompTIA's Linux+ certification.

[CSU, UC]

## CSS-64. HTML 5 and CSS 3 - Web Development (4) Pass/No Pass Option

Lec 54 Hrs; Lab 54 Hrs

Students will learn to leverage HTML 5 and CSS 3 to create modern, feature rich web content, by designing professional, eye-catching content. The student will develop and learn to enhance User Experience, UX, across all devices, from static websites, mobile devices and tablets. Students will apply best practices and use emerging standards for HTML markup language, CSS 3, and JavaScript programming to improve site performance, accessibility, and SEO. Students will use a variety of drag and drop, Canvas, SVG graphics, audio, and video to improve web content. [CSU]

CSS-65. Introduction to IOS App Development (4)

Pass/No Pass Option

Lec 54 Hrs; Lab 54 Hrs

## CMA-52. Construction Graphics (3)

Pass/No Pass Option Fall Only

Lec 36 Hrs; Lab 54 Hrs

Introduction to fundamental principles of comprehension, interpretation, and analysis of construction drawings, CAD prints,

## CMA-63. Concrete and Masonry Technology (3)

Pass/No Pass Option Summer Only

Lec 36 Hrs; Lab 54 Hrs

Fundamentals of the masonry and concrete industries, including residential, commercial, and civil field principles and practice, project layout, tools, materials, finishing, and sustainability issues.

#### CMA-74. Industrial Print Reading (3)

Pass/No Pass Option Fall Only

Lec 36 Hrs; Lab 54 Hrs

Fundamentals of reading and interpreting drawings used in engineering, industry and manufacturing. Students will learn the principals of orthographic projection, technical sketching, applied geometry, orthographic projection with related graphic symbols and standards.

[CSU]

#### CMA-75. Engineering Drawing with SolidWorks (3)

Advisory: CMA-74 Pass/No Pass Option Fall Only

Lec 36 Hrs; Lab 54 Hrs

Introduces students to essential features of the SolidWorks 3D computer-aided design modeling application software. Students will construct parts, solid models, and assemblies, as well as generate orthographic drawings, add dimensions, and plot to produce engineering documentation packages.

[CSU; UC]

## CMA-76. Computer-Aided Mechanical Drawing and Detailing (3)

Advisory: CMA-75 Pass/No Pass Option Spring Only

Lec 36 Hrs; Lab 54 Hrs

An advanced study of orthographic projection with precision dimensioning. Includes tolerance and fit, geometric tolerance, different types of sectional views, and fastening devices for manufacturing industries. Emphasis is placed on modern and applied drafting and methods established by the American National Standard Institute (ANSI). Computer aided drafting and design tools such as SolidWorks, Autodesk's Inventor or similar will be used. Formerly DRA-58. Not open to students who have completed DRA-58 with a grade of "C" or better.

[CSU]

## CMA-81. Computer Aided Drafting and Design I (3) Fall Only

Lec 36 Hrs; Lab 54 Hrs

Introduces how to use AutoCAD to set up drawings and construct lines, circles, arcs, other objects, geometric shapes and constructions, and text. Students will use display and editing techniques, obtain information about their drawings, and work with drawing files. Also introduces recommended drafting standards to prepare technical drawings and also covers topics in basic dimensioning, parametric drafting, drawing layout, plotting, and creating sheet sets. Formerly DRA-52. Not open to students who have completed DRA-52 with a grade of "C" or better.

[CSU]

#### CMA-82. Computer Aided Drafting and Design II (3)

**Prerequisite:** CMA-81 with a grade of "C" or better. **Spring Only** 

Lec 36 Hrs; Lab 54 Hrs

Builds on the knowledge acquired in CMA-81 Computer Aided Design I. Examines dimensioning, blocks and attributes, section views, multi-view layouts, annotative objects, external references, and sheet sets. Students will learn how to use AutoCAD advanced dimension tools, create section lines and graphic patterns, design symbols, attributes for multiple use, and isometric drawings. Explores the three-dimensional solid modeling and viewing capabilities of AutoCAD. Formerly DRA-53. Not open to students who have completed DRA-53 with a grade "C" or better. [CSU]

#### CMA-83. Introduction to Revit Architecture (3)

Advisory: CMA-81
Pass/No Pass Option
Spring Only

Lec 36 Hrs; Lab 54 Hrs

Covers the basics of Revit Architecture, from schematic design through construction documentation. Students will learn how to: set up a new building information model; create a basic floor plan; work with basic architectural elements (walls, doors, windows, floors, ceilings, roofs, curtain walls, stairs and railings); create sections, elevations and callouts views; add annotations including dimensions, text, tags, schedules and legends; and share designs by working in teams, creating architectural visualization renderings and plotting finished drawings. Formerly CMA-69. Not open to students who have completed CMA-69 with a grade of .232 1h1.437we3.3 DeLnd C0.0

### CMA-91. Construction Management and Scheduling (3) Spring Only

Lec 54 Hrs

Course presents principles of construction project management, development and application of project control methods for compliance with construction contracts and specifications, general and supplementary conditions, and Construction Specifications Institute (CSI) specifications, cost, schedule, quality, safety, and change orders. Introduces work breakdown structures, critical path method; planning, monitoring and updating of schedules utilizing computer scheduling software.

[CSU]

#### **CO-OP WORK EXPERIENCE**

# CWE-99. General Cooperative Work Experience Education (1.25 - 3.25)

#### Fall/Spring

Cooperative Work Experience provides opportunities to acquire and demonstrate employer-desired work habits, attitudes, and skills in the workplace. Employment need not be related to the student's educational major and/or career goals. Students must be employed or participating in an internship or volunteering. Cooperative effort between student, supervisor, and instructor to develop measurable

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#### COU-23. Student Skills for Success: Career Development (3)

Pass/No Pass Option

AII Terms

Lec 54 Hrs

Designed to assist students create and implement a plan for optimal career and personal development. Students will create a personal and career profile by assessing interests, aptitudes, skills, values, personality, and life and personal circumstances; as well as develop educational options and pathways that occur during a typical life span.

[CSU; CSU-GE, AREA E]

# COU-27. Life Planning (3) Pass/No Pass Option Fall/Spring

Comprehensive life and career planning course with a focus on key lifespan issues. Importance of relationship and appreciation of divergent cultural values will be explored. Action steps will be explored and identified to enable student's success and to select a

college major.

Lec 54 Hrs

[CSU; CSU-GE, AREA E]

COU-30. Career Interest and Ability Assessment (1)

Pass/No Pass Option Fall/Spring

Lec

#### ECE-8. Math and Science in Early Childhood (3)

Lec 54 Hrs

Exploration of the content and concepts of the early childhood mathematics and science curriculum. Students will examine and apply theories, methods, and materials to facilitate children's understanding and appreciation for the concepts of math and science with an emphasis on discovery, play, problem-solving skills, and strategies. Includes California Preschool Foundations for Mathematics and Science and the construction and presentation of appropriate materials for young children, including children with special needs.

[CSU; UC]

#### ECE-9. Creative Expressions and Play in Early Childhood (3)

Lec 54 Hrs

This course is an exploration of creative play, art, music and movement (motor skills) for young children. Emphasis will be placed on integrated teaching practices in early childhood education.

[CSU; UC]

#### ECE-10. Observation and Assessment (3)

Lec 54 Hrs

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

[CSU] [C-ID ECE 200]

#### ECE-12. Practicum: Field Teaching Experience (4)

**Prerequisite:** ECE-1, ECE-4, ECE-6, ECE-10 with a grade of "C" or better.

**Other:** Students enrolling in ECE-12 must demonstrate up to date immunization records on the first day of class (MMR, DTAP and current TB clearance within 1 year).

Lec 36 Hrs; Lab 108 Hrs

Students will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and

### ECE-53. Teaching in a Diverse Society (3) Fall/Spring

Lec 54 Hrs

Examines the historical and current perspectives on diversity and inclusion and the impact of systemic societal influences on children's development, learning, and school experiences. Strategies for developmentally, culturally, and linguistically responsive anti-bias curriculum will be explored as well as approaches to promote inclusive and anti-racist classroom communities. Includes self-reflection on the influence of teachers' own culture and life experiences on teaching and interactions with children and families. [CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID ECE 230]

### ECE-54. Language and Early Literacy Curriculum (3)

Lec 54 Hrs

Designed for students interested in understanding theories of language acquisition and for monolingual, English learners, and children with special needs. Focus on methods and materials to promote emerging language and literacy for all young children in a culturally diverse society.

[CSU]

# ECE-70A. Administration I-Programs in Early Childhood Education (3)

**Prerequisite:** ECE-1, ECE-2, ECE-4 and ECE-6 with a grade of "C" or better.

Lec 54 Hrs

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

[CSU]

# ECE-70B. Advanced Administration II: Personnel and Leadership in Child Development Programs (3)

Prerequisite: ECE-70A with a grade of "C" or better.

Lec 54 Hrs

Designed for advanced students of Early Childhood Education, supervisors and administrators of child development programs to expand skills and knowledge in program funding, organizational systems, legal and ethical responsibilities, program management and leadership skills. Focus on profit and non-profit programs, program funding, grant writing, program evaluation, program improvement, supervision techniques, professional development, advocacy, professionalism, and reflective practices for diverse and inclusive early care and education programs.

[CSU]

# ECE-71. Adult Supervision and Mentoring in ECE Settings (2)

Lec 36 Hrs

Methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders.

[CSU]

#### ECE-200. Parent Enrichment (0.25 - 1)

Pass/No Pass Only

Lab 12-18 Hrs

Designed for parents about the typical developmental and growth patterns of preschool children. Students may enroll in this course up to 4 times to complete all content areas for a maximum of 1.0 units.

#### **ECONOMICS**

### ECO-1. Principles of Macroeconomics (3) *Prerequisite:*

#### ECO-10. Introduction to Economics (3)

Prerequisite: Eligibility for ENG-1A;

Fall Only Lec 54 Hrs

A broad survey of the development of economic ideas and theories in the context of economic schools of thought. Both microeconomic and macroeconomic topics are covered including scarcity, opportunity costs, supply and demand (both individual and aggregate), market structures, labor markets, the business cycle, government intervention including regulations, fiscal policy and monetary policy, and international issues such as international trade and global income distribution. Not open to students who have completed ECO-1 and ECO-5 with a "C" or better.

[CSU; UC; CSU-GE, AREA D2; IGETC, AREA 4]

#### **EDUCATION**

### EDU-1. Introduction to Education in a Changing World (3)

Advisory: ENG-1A Fall/Spring Lec 54 Hrs

An introduction to education, this course reviews the historical, sociological, philosophical and psychological perspectives, which form the context of the American educational system. Designed to encourage prospective teachers to reflect on their decision to enter the teaching profession, particularly at the K-12 level, this course will focus on analyzing the multicultural dynamics in the historical and social structure of school and society, while providing opportunities to analyze a variety of teaching perspectives, and to gain and develop the cultural knowledge of self and others necessary to teach in a multicultural society. As such, it includes an observation or service-learning component that requires 45 hours of supervised participation at a school site. There may be a few associated with TB and LifeScan reviews as required by a school site.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4]
[C-ID EDUC 200]

### EDU-110. Foundations of Success (1.25)

Pass/No Pass Only

Lec 36 Hrs; Lab 40.5 Hrs

Introduction to professional behaviors, attitudes and values that lead to academic and professional success. Individual working and learning styles, communication methods, and stress reduction are key concepts. A learning environment is created to foster collaboration, curiosity, and successful student behaviors.

#### EDU-111. Team Self-Management (2)

Prerequisite: EDU-110 with a grade of "C" or better.

Lec 36 Hrs

Fundamentals of project management with a self-managed team. Course explores the connections of the student's purposes, intentions, and behaviors to improve self-management skills. The student develops personal and academic objectives: time management, educational plans, heightened self-avereness, and consideration for others in a professional plans.

EDU-112. Social Justice Research Methods (3

Corequisite: EDU-111, COU-30 and BUS-150

#### **ENGINEERING**

### EGN-1R. Introduction to Engineering (2)

Prerequisite: Intermediate Algebra or equivalent or

placement beyond.

Lec 36 Hrs

Explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession. Not open to students who have completed EGN-1 with a grade of "C" or better.

# EGN-7L. Computer Interface with the Physical World Laboratory (1)

**Prerequisite:** MAT-3A with a grade of "C" or better.

Corequisite: CSS-2A

**Advisory:** EGN-1R or EGN-1

Lab 54 Hrs

Introduces the interface of software with the physical world (e.g., the use of sensors). This course is recommended for electrical, computer, and software engineering majors. Not open to students who have completed EGN-7 or CSS-4 with a grade of "C" or better.

[CSU; UC] [C-ID ENGR 120 with CSS 2A]

### EGN-8. Statics (3)

Prerequisite: PHY-4A and MAT-3B with a grade of "C" or

better.

Advisory: EGN5

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#### ENG-22. Studies in Poetry (3)

Spring Only - Odd Years

Lec 54 Hrs

An introduction to poetry from a variety of cultures and historical periods to understand the genre as both artistic and cultural representation. Students read poems and poetic forms, watch poets read and discuss their work, write literary and cultural analyses of poems, and compose their own original poems.

[CSU; UC; CSU-GE, AREA C2; IGETC AREA 3]

#### ENG-24. The Short Story (3)

Prerequisite: ENG-1A or ENG-1AX with a grade of "C" or

better.

Fall Only -Even Years

Lec 54 Hrs

Reading and diverse selection of classics and contemporary short fiction. Analysis of a spectrum of voices, styles, formal structures, and themes. Application of different types of literacy criticism, such as feminist and reader response.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3]

#### ENG-26. Chicanx Literature (3)

**Prerequisite**: ENG-1A or ENG-1AX with a grade of "C" or

better.

Spring Only -Odd Years

Lec 54 Hrs

An introduction to the study of Chicanx Literature from the oral tradition, "el cuento," to the written contemporary works of authors such as Rivera, Cisneros, Villasenor, and Soto.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3]

#### ENG-31. Beginning Creative Writing (3)

Prerequisite: Eligibility for ENG-1A.

Fall Only -Even Years

Lec 54 Hrs

Designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing and publishing fiction, poetry, and essays. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. Readings will focus on the critical analysis of short stories and literature in order to achieve a better understanding of the interrelationship between creative arts, humanities and the individual.

[CSU; UC; CSU-GE, AREA C2] [C-ID ENGL 200]

#### ENG-41. Art of Steinbeck (3)

Fall Only -Even Years

Lec 54 Hrs

A close study of John Steinbeck's California novels that best exemplify his themes, style, and use of setting.

[CSU; UC; CSU-GE AREA C2; IGETC, AREA 3]

#### ENG-44A. World Literature I (3)

Prerequisite: ENG-1A or ENG-1AX with a grade of "C" or

better.

Fall Only -Odd Years

Lec 54 Hrs

A study of world literature from ancient times through the Renaissance. Readings will include poetry and prose and the course will consider the literary, cultural, and historical significance of literature from Western and Non-Western traditions.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3]

[C-ID ENGL 140]

#### ENG-44B. World Literature II (3)

Prerequisite: ENG-1A or ENG-1AX with a grade of "C" or

better.

Spring Only-Even Years

Lec 54 Hrs

Study of world literature from the Renaissance to the present time. Readings will include poetry and prose and the course will consider the literary, cultural, and historical significance of literature from Western and Non-Western traditions.

[CSU; UC; CSU-GE; AREA C2; IGETC, AREA 3]

#### ENG-47A. Survey of American Literature I (3)

**Prerequisite:** ENG-1A or ENG-1AX with a grade of "C" or

better.

#### Spring Only-Odd Years

Lec 54 Hrs

Survey of American literature from its origins to the late 19th century. Readings will include poetry, prose, drama, and religious writings of this period, chosen for their literary, historical, and cultural significance.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3]

[C-ID ENGL 130]

#### ENG-47B. Survey of American Literature II (3)

Prerequisite: ENG-1A or ENG-1AX with a grade of "C" or

better.

### Fall Only-Odd Years

Lec 54 Hrs

Survey of American literature from the late 19th century to the present. Readings will include poetry, prose, and drama of this period, chosen for its literary, historical, and cultural significance.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3] [C-ID ENGL 135]

#### ENG-48. Introduction to Children's Literature (3)

**Prerequisite:** ENG-1A or ENG-1AX with a grade of "C" or better.

Fall Only-Odd Years

Lec 54 Hrs

A study of children's literature from ancient origins to contemporary fiction. It examines the various genres of children's literature from picture books, traditional literature, fantasy, poetry, realistic and historical fiction from such writers as Aesop, Grimm, Lewis, Sandburg, Sendak, White, Woodson, Rowling, Alexi, Alvarez, and Adams through close critical reading and analytical writing consisting of at least 6,000 words.

[CSU; UC; CSU-GE, AREA C2; IGETC AREA 3B] [C-ID ENGL 180]

#### **ENGLISH FOR MULTILINGUAL SPEAKERS**

### ENGM-120. Beginning Reading and Writing (6)

Advisory: Students should be literate enough in their native language to write a note to a friend or read a newspaper in their native language. They should have enough English language competency to speak and/or write understandable simple sentences despite making grammatical errors.

#### Pass/No Pass Option

Lec 90 Hrs Lab 54 Hrs

Reading and writing practice at the beginning level for multilingual speakers of English. Course includes three weekly hours of lab.

# ENGM-122. Beginning Speaking and Listening (4) Pass/No Pass Option

Lec 72 Hrs

Lec

#### ENGM-158. High-Intermediate Reading and Vocabulary (4)

Advisory: ENGM-140
Pass/No Pass Option

Lec 72 Hrs

Uses current issues and nonfiction texts to develop critical reading skills, academic vocabulary, and discussion skills. For multi-lingual English speakers at high-intermediate level. Not open to students who have completed ESL-258 with a grade of "C" or better.

#### ENGM-160. Reading and Writing for College (5)

**Advisory:** ENGM-150

Lec 90 Hrs

Prepares students to read and write for college. Readings include college or near college-level articles, essays, and other types of nonfiction. Emphasis on summary writing, paragraphs and short essays that analyze and respond to class readings. Includes practice with vocabulary, grammatical forms, and punctuation that support effective writing in college. Not open to students who have completed ESL-101 with a grade of "C" or better.

### ENGM-162. College Speaking and Listening Skills (3)

Lec 54Hrs

This course develops listening and speaking skills that multilingual students need to succeed in college. These skills include note taking, asking for clarification, summarizing, small group and whole class discussions, and individual and group presentations.

#### ENGM-190A. English in the Lab A (1)

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#### ENGM-632. Low-Intermediate Speaking and Listening (0)

Lec 72 Hrs

Listening and conversation practice at the low-intermediate level for multilingual English learners.

#### ENGM-640. Intermediate Reading & Writing (0)

Lec 90 Hrs Lab 54 Hrs

Emphasizes grammar, vocabulary and reading comprehension skills for intermediate multilingual English learners. Includes three hours of lab per week.

#### ENGM-642. Intermediate Speaking and Listening (0)

Lec 72 Hrs

Listening and conversation practice at the intermediate level for multilingual English learners.

#### ENGM-650. High-Intermediate Writing & Grammar (0)

Advisory: ENGM-140

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#### ENGM-658. High-Intermediate Reading and Vocabulary

## **ETHNIC STUDIES**

ETH-1. Introduction to Ethnic Studies (3)

All Terms

Pass/No Pass Option

Lec 54 Hrs

#### ETH-12. Chicano Cinema (3)

Spring Only

Lec 54 Hrs

A survey of the experiences of Chicanos in the United States including Chicano culture, identity, resistance, social reality and history as portrayed in film and video. A series of films, including Hollywood commercial and Chicano made films, will be screened as part of an analysis of Chicano images and their impact on American popular culture.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3]

# ETH-13. Introduction to Native Americans in the Salinas Valley (3) Pass/No Pass Option

Pass/No Pass Option
Fall Only

Lec 54 Hrs

An introduction to Native Americans of the Salinas Valley. The course will provide students with an overview of the following Monterey County native peoples: the Ohlone, Costanoan, Esselen Nation, Salinan, Rumsen and Amah Mutsun, among others. Tracing the first European contact, and culminating in current efforts in protecting sacred sites from development projects, this course will not only introduce students to the local Native cultures but will expose them to opportunities to become involved in current movements led by our local Native American communities today.

[CSU; UC; CSU-GE, AREA D, F; IGETC, AREA 4, 7]

# ETH-21. Introduction to African American Studies (3) Pass/No Pass Option Fall/Spring

Lec 54 Hrs

This course is an overview of African American studies as a discipline, and of its' relationship to social justice studies. Interdisciplinary approaches will be employed in studying and understanding the experiences of African Americans. Critical analysis of the various perspectives and contributions of African Americans in the development and growth of the United States will be central. This includes areas from politics, to economics, to education. The course is intended for students who plan to pursue a degree with emphasis in African American studies and for students interested in gaining general knowledge about the experiences of Blacks/African Americans in the context of the United States. The course provides a decolonized, noncommercial entry point into the Theatre Arts. Not open to students who have completed SJS-21, Introduction to African American Studies with a grade of "C" or better.

[CSU; UC; CSU-GE, AREA D, F; IGETC, AREA 4, 7]

# ETH-56. Ethnic Studies Cinema—Silenced Voices (3) Pass/No Pass Option Fall/Spring

Lec 54 Hrs

An explorative journey through the narratives of marginalized voices, through film. The purpose of this course is to provide students with new, critical perspectives through examination of the experiences, struggles and successes of ignored and oppressed 1 Tw 9sed

#### **GEOLOGY**

#### GEL-1. Physical Geology (4)

Lec 54 Hrs; Lab 54 Hrs

The nature and structure of the materials composing the earth and the various processes which have shaped or are shaping its surface. Includes plate tectonics, earthquakes, volcanoes, landforms, minerals, rocks, and geologic maps.

[CSU; UC; CSU-GE, AREA B1, B3; IGETC, AREA 5] [C-ID GEOL 101]

#### **GEL-2.** Introduction to Geology (3)

Lec 54 Hrs

Introduction to phenomena and basic principles of geology emphasizing plate tectonics. Includes demonstrations illustrating the nature of minerals, rocks, landforms, volcanoes, fossils, and geological maps. Discussion of earthquake hazards, mass wasting, climate change, and importance of geology to modern society.

[CSU; UC; CSU-GE, AREA B1; IGETC, AREA 5] [C-ID GEOL 100]

#### GEL-6. History of the Earth (4)

Lec 54 Hrs: Lab 54 Hrs

An introduction to Earth's history and the life it supports. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years. The laboratory component includes geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years. Students will supply: calculator, scale, protractor, colored pencils, 10X hand lens.

[CSU; UC; CSU-GE, AREA B1, B3; IGETC, AREA 5] [C-ID GEOL 111]

#### GEL-25. Environmental Geology (3)

Lec 54 Hrs

An introduction to the fundamentals of Environmental Geology including the interactions between and impacts of humans with the environment in geologic context. Course emphasizes the Earth system and connections between the geosphere, biosphere, biosphere, atmosphere, and hydrosphere. Application to Monteren the geosournty isw 0 -1.4370t3w

#### **HEALTH SERVICES**

#### HES-1. Introduction to Public Health (3)

Advisory: Eligibility for ENG-1A

All Terms Lec 54 Hrs

An introduction to the discipline of public health. An overview of terminologies and basic concepts of public health, public health professions, institutions, and public health disciplines will be provided. Areas of public health such as epidemiology, prevention and control of diseases in the community, analysis of social determinants of health, health disparities, community health promotion programming, environmental health and safety, global health, and health, and healthcare policy will be covered.

[CSU; UC; CSU-GE, AREA D, E; IGETC, AREA 4] [C-ID PHS 101]

#### HES-2. Health and Social Justice (3)

Advisory: Eligibility for ENG-1A

All Terms Lec 54 Hrs

An introduction to the health inequities in the United States due to unequal living conditions. Socioeconomics, race and gender as topics of health inequality in the United States will be covered. Students will research current policy proposals to reduce health inequality and gain information and skills for health and social justice advocacy.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID PHS 102]

#### HES-3. Drugs, Health, and Society (3)

Advisory: Eligibility for ENG-1A

All Terms Lec 54 Hrs

An overview of substance abuse and its relevance to personal and public health. The definition of licit and illicit drug use as well as the concept of substance abuse and dependence will be introduced. The pharmacology of selected substances and their neurologic and physiologic effects will be reviewed. Political, social, and economic factors involved in the supply and demand for drugs will be discussed. Epidemiologic data on the incidence, prevalence, and trends of smoking, alcohol, prescription, and other drug dependencies in the U.S. will be covered as well as risk factors associated with the use and abuse of these substances. Treatment options for recovery and prevention will be reviewed.

[CSU; UC; CSU-GE, AREA E] [C-ID PHS 103]

#### HES-80. Medical Terminology (3)

All Terms

Lec 54 Hrs

Introduces the foundations of medical word-building principles as essential tools for effective communication in the health services industry. This course is not open to students who have completed BUS-180 with a grade of "C" or better.

[CSU]

# HES-120. American Heart Association's Basic Life Support for Health Care Providers (0.5)

**Advisory:** Students are required to read the Basic Life Support Manual for Health Care Providers before class.

Pass/No Pass Only

All Terms

Lec 9 Hrs

Provides the student with knowledge required of the health care professional to perform basic life support in any setting. Upon successful completion, students will acquire the American Heart Association Basic Life Support for Health Care Providers certification. A fee will be required for the CPR card.

### HSE-650. High School Equivalency: HISET/GED Level 2 (0) Pass/No Pass Only

Lab 54 Hrs

This course is designed for students who have achieved an eighth-grade level in reading, writing, math, and critical thinking skills and who are preparing to take the HSE (High School Equivalency) test (GED/HiSET) within one or two semesters time. The class is an overview of basic skills including, arithmetic, pre-algebra, basic reading comprehension, basic composition, and inferences and interpretation. Additionally, test taking skills will be introduced.

# HSE-650S. High School Equivalency: HISET/GED Level 2 in Spanish

Pass/No Pass Only

Lab 54 Hrs

Offered in Spanish and designed for students who have achieved an eighth-grade level in reading, writing, math, and critical thinking skills and who are preparing to take the HSE (High School Equivalency) test (GED/HiSET) within one or two semesters time. The class is an overview of basic skills including, arithmetic, pre-algebra, basic reading comprehension, basic composition, and inferences and interpretation.

## HSE-660. High School Equivalency: HISET/GED Level 3 (0) Pass/No Pass Only

Lab 54 Hrs

Designed for students who have achieved above an 8<sup>th</sup> grade level in reading, writing, math, and critical thinking skills and who are preparing to take the HSE (High School Equivalency) test (GEDtakta (v-1.437 (h)0.6 (Tw T\* 6452 0(and)-4.8iew)-4.5 (of3basic (semestek(ill be ins(c)-9J-0.0019 Tc 024241 Tw4T\*[(r3 TD [(and in.7 lud.2 .5 (bra7 )]]

### HIS-6. History of Mexico (3)

#### Fall/Spring

Lec 54 Hrs

A survey of the history of Mexico from the Indigenous period to the present with emphasis on the political, economic, cultural, and social institutions of Mexico.

[CSU; UC; CSU-GE, AREA C2, D; IGETC, AREA 3B, 4]

#### HIS-10. History of California (3)

#### All Terms

Lec 54 Hrs

The history of California from the Indigenous period to the present focusing on the experiences of Peoples of Color including the Indigenous People of California, Chicanos/Latinos, African Americans, Asian Americans and Pacific Islanders. Local history considered in depth.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 3]

#### HIS-17A. United States History A (3)

#### Pass/No Pass Option

Lec 54 Hrs

A survey of United States history from the Indigenous period through Reconstruction, including the development of the major political, social, and economic institutions and ideals in the entire area which is now the United States, with a special emphasis on the roles of major ethnic and social groups.

[CSU; UC; CSU-GE, AREA D, C2; IGETC, AREA 3,4] [C-ID HIST 130]

#### HIS-17B. United States History B (3)

**AII Terms** 

Lec 54 Hrs

#### **INSTRUCTIONAL AIDE**

# INS-250. Tutor Training (0.5 - 1) Pass/No Pass Only

Lec 9 -18 Hrs

Provides an introduction to the theories and methods of effective tutoring, including interviewing, identification of learning problems, the study and development of effective communication techniques, and the use of learning theories and methods of effective individualized and group instruction. Opportunities will be provided for evaluation of and experience in tutoring situations. The course is offered on an open entry/open exit basis; it is designed to introduce students to tutoring and supplemental instruction best practices in one-half unit modules. Students will consult with an instructor regarding the scheduling of their hours. Students may enroll in this course again if needed to complete both content areas.

INS-301. Supervised Tutoring (0)

All Terms

Lab

#### MFGT-75. Agricultural Machinery Management (3)

Lec 36 Hrs; Lab 54 Hrs

Use, maintenance, adjustment, calibration, and repair of the equipment commonly used in California agriculture. Emphasis on primary and secondary tillage, planting, chemical application, harvesting and shop equipment. Safety will be stressed throughout. Formerly AGR-94 or AIT-75. Not open to students who have completed AGR-94 or AIT-75 with a grade of "C" or better.

[CSU; UC]

#### MFGT-110. Industrial Safety (2)

Lec 18 Hrs; Lab 54 Hrs

An introductory course on all aspects of safety as it relates to industry. The course will cover the following topics: Hazardous materials, personal protective equipment, materials handling and storage, industrial hygiene, safety inspections, and general industrial safety of proper use of tools and machines. Students may have the opportunity to receive an OSHA 10 or OSHA 30 card. Work appropriate clothing is required for this course including (but not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

# MFGT-111A. Fundamentals of Agricultural Mechatronics A (2)

Pass/No Pass Option

Lec 18 Hrs: Lab 54 Hrs

The first of two introductory courses in agricultural mechatronics. Topics include the history of mechatronics and Industry 4.0, precision instruments, basic mathematics, hand and power tools, and mechatronic fundamentals. Work appropriate clothing is required for this course including (but not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

# MFGT-111B. Fundamentals of Agricultural Mechatronics B (2)

Prerequisite: MFGT-111A Pass/No Pass Option Lec 18 Hrs; Lab 54 Hrs

The second of two introductory courses in agricultural mechatronics. Topics include mechanical hydraulic systems, pneumatic systems, and fundamentals of Programmable Logic Controllers. Work appropriate clothing is required for this course including (but not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

that cover the wearer to the ankle and closed-toe shoes.

MFGT-112B with a grade6.3.1 ( of )-6.7 ("C" or be6.3.1 (tte6.3.1 (r )]J/T

#### Prerequisite:

controllers and human-machine interface, and robotic systems. Work appropria6.3.2 (t)-1.1 (e c)-4.8 Tlothing is required for this cuding not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

#### MFGT-114, Advanced Agricultural Process Automation (4)

Prerequisite: MFGT-113 with a grade of "C" or better

Lec 36 Hrs; Lab 108 Hrs

The fourth course in the agricultural mechatronics sequence for indoor processing of value-added agricultural products. Students will use engineering design method and apply advanced troubleshooting techniques on automated processing equipment. Topics include emergency systems, control loops, data networks, programming controlled (Pact), control systems, and troubleshooting of fluid power, electrical, process control, and programming systems. Work appropriate clothing is required for this course including (but not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

### MFGT-130. Introduction to Metal Fabrication (3) Pass/No Pass Option

Lec 27 Hrs; Lab 81 Hrs

Introduction to metal fabrication. Students will learn the safe and proper use of fabrication tools and equipment. Students will plan a project, develop a bill of materials, and complete the project using proper fabrication techniques. Work appropriate clothing is required for this course including (but not limited to) long pants that cover the wearer to the ankle and closed-toe shoes.

#### MFGT-131. Intermediate Metal Fabrication (3)

Prerequisite: MFGT-130 with a grade of "C" or better.

Pass/No Pass Option Lec 27 Hrs; Lab 81 Hrs

Second of three metal fabrication courses with a focus on advanced fabrication equipment including robotic welding, CNC plasma, mill, lathe, Valod adivarced about 98ve3 (a) 10.43 lima a) 7 TD rk, is.8 4h required course including (but not limited to) long pants that cover the weamming systems.(v) 6.3 (a) 0.8 le and closed-toe 8h

# MFGT-301A. Industrial Maintenance Electrical & Instrumentation Mechanic Level 1A

**Prerequisite:** MFGT-300 with a grade of "C" or better.

Pass/No Pass Only

MAT-3B. Analytic Geometry and Calculus II (4)

#### **METEOROLOGY**

#### MET-1. Weather and Climate (3)

#### Pass/No Pass Option

Lec 54 Hrs

A survey of basic principles of weather and climate, including atmospheric structure and composition, regional distribution and effects of weather, solar radiation, temperature, seasonal changes, atmospheric moisture, air pressure, winds, air masses and fronts, weather forecasting, climate and climate cycles past, present and future.

[CSU; UC; CSU-GE, AREA B1; IGETC, AREA 5]

#### **MUSIC**

#### MUS-1A. Music Appreciation-Historical Perspective (3)

All Terms

Lec 54 Hrs

A survey of Western music from the 6th century C.E. until the present, covering the important style periods along with the composers who created them and the resources they used.

[CSU; UC; CSU-GE, AREA C1; IGETC, AREA 3]

[C-ID MUS 100]

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#### MUS-2. Music Fundamentals (3)

All Terms

Lec 54 Hrs

An introduction to the notation and primary elements of tonal

#### MUS-13A. Beginning Piano I (1.5)

Advisory: MUS-2 Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Beginning piano study including introduction to the keyboard and music reading. Piano classes may be repeated at the appropriate level, but total piano enrollments are limited to four.

[CSU]

#### MUS-13B. Beginning Piano II (1)

Advisory: MUS-2

Prerequisite: MUS-13A with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Continuation of beginning piano study. Piano classes may be repeated at the appropriate level, but total piano enrollments are limited to four.

[CSU; UC]

#### MUS-14. Intermediate Piano (1)

Prerequisite: MUS-13B with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Intermediate piano study covering the fundamentals of technique, style and interpretation. Solo and ensemble performance from standard piano literature. Piano classes may be repeated at the appropriate level, but total piano enrollments are limited to four.

[CSU; UC]

#### MUS-15. Advanced Piano (1)

Prerequisite: MUS-14 with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Advanced piano study, a continuation of MUS-14. Piano classes may be repeated at the appropriate level, but total piano enrollments are limited to four.

[CSU; UC]

#### MUS-17A. Beginning Guitar I (1.5)

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Class instruction on guitar at the beginning level. Covers position, right and left-hand playing techniques, tuning, and the basics of musical notation. Students must bring their own unamplified guitar.

[CSU; UC]

#### MUS-17B. Beginning Guitar II (1.5)

Prerequisite: MUS-17A with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Class instruction on guitar at the beginning level. Covers position, right and left-hand playing techniques, tuning, and the basics of musical notation. Students must bring their own unamplified guitar.

[CSU; UC]

#### MUS-17C. Intermediate Guitar I (1.5)

**Prerequisite:** MUS-17B with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs; Lab 36 Hrs

Instruction on guitar to include playing in 2nd and 3rd position, study of classical and contemporary solos and etudes, and an introduction to ensemble playing. Students must bring their own unamplified guitar.

[CSU]

#### MUS-17D. Intermediate Guitar II (1.5)

**Prerequisite:** MUS-17C with a grade of "C" or better.

Fall/Spring

Lec 18 Hrs: Lab 36 Hrs

Continued instruction on guitar at the upper intermediate level including 2nd and 3rd positions, vibrato, harmonics, classical and contemporary solos and etudes, and ensemble playing. Students must bring their own unamplified guitar.

[CSU; UC]

#### MUS-20. Hartnell College Choir (1)

Prerequisite: Audition is required.

Fall/Spring

Lab 54 Hrs

A performance group studying the choral literature ranging from works of the early masters to modern composers. This course is not limited to music majors. Students majoring in vocal music are expected to enroll in the choir for two years. May be repeated for credit to a maximum of 4 units.

[CSU; UC] [C-ID MUS 180]

#### MUS-21. Hartnell Chamber Singers (1)

Prerequisite: Audition is required.

Fall/Spring

Lab 54 Hrs

A vocal ensemble devoted to the study and performance of musical literature suited to a small group of singers. May be repeated for credit to a maximum of 4 units.

[CSU; UC] [C-ID MUS 180]

#### MUS-25. Hartnell College Wind Ensemble (1)

Prerequisite: Audition is required.

Fall/Spring

Lab 54 Hrs

A performance group studying literature for the small wind ensemble. Performances include concerts and playing at college and community events. Open to all students who play a wind or percussion instrument. Music majors specializing in instrumental music are expected to participate for two years. May be repeated for credit to a maximum of 4 units. Audition is required.

[CSU; UC]

#### MUS-26. Jazz Ensemble (1)

Prerequisite: Audition is required.

Fall/Spring

Lab 54 Hrs

A performance group studying literature for the jazz ensemble. Performances include concerts and playing at college and community events. Open to all students who play piano, bass, drums, guitar, saxophone, trumpet or trombone. May be repeated for credit to maximum of 4 units.

[CSU; UC] [C-ID MUS 180]

#### MUS-37. Hartnell Orchestra (1)

Advisory: Ability to play a musical instrument.

Fall/Spring

Lab 54 Hrs

Students will study and perform orchestral music repertoire for strings, woodwinds, brass, and percussion.

[CSU; UC]

### MUS-42. Electronic Music-history and composition (3) Spring

Lec 54 Hrs

This course presents an overview of the history of electronic music from the late 19th century through to the present, with an emphasis on the cultural elements of each historical trend. Students will analyze historically significant works from the experimental art music of the mid-20th century through the popular forms of the 21st century.

[CSU; UC; CSU-GE, AREA C1; IGETC, AREA 3A]

#### MUS-43. MIDI Sequencing (3)

Prerequisite: MUS-42 with a grade of "C" or better.

Spring

Lec 54 Hrs

Introduction to MIDI sequencing using a computer. Includes hardware and software selection and set-up, click tracks, quantizing, looping, multi-timbral operations, step-time recording, CD creation, MIDI for web pages. Creation of original MIDI sequences.

[CSU]

#### MUS-46. Music Theory and Musicianship, I (4)

Prerequisite: MUS-2 with a grade of "C" or better.

**Advisory:** Familiarity with musical notation, piano keyboard and ensemble playing MUS-13A and MUS-20 or MUS-26 or MUS-36 or MUS-37.

Fall Only

Lec 45 Hrs; Lab 81 Hrs

The diatonic system of harmony from an analytical and practical point of view, including the basic elements of voice leading, musical analysis and chord usage, concentrating on the aesthetic and cultural qualities of the music. Students will do sight-singing and ear training using diatonic materials. Not open to students who have completed both MUS-50A and MUS-51A with a "C" grade or better.

[CSU; UC] [C-ID MUS 120] [C-ID MUS 125]

### MUS-47. Music Theory and Musicianship II (4)

**Prerequisite:** MUS-46 with a grade of "C" or better. **Advisory:** Familiarity with musical notation, piano keyboard and ensemble playing MUS-13A and MUS-26 or MUS-36 or MUS-37 or MUS-20.

Spring Only

Lec 45 Hrs; Lab 81 Hrs

Continuation of MUS-46. The diatonic system of harmony from an analytical and practical point of view, including voice leading, musical analysis and chord usage, concentrating on the aesthetic aix 7540000 Total 10762186 The 1/fill \$704 Stu(te)+1/sh)/81 (voint Ballai total aix and a sight-singing and ear training using diatonic materials. Not open to

#### MUS-49. Music Theory and Musicianship IV (4)

Prerequisite: MUS-48 with a grade of "C" or better.

**Advisory:** Familiarity with musical notation, piano keyboard, and ensemble playing. MUS 13A or MUS 13B or MUS 14 or MUS 15 and MUS 20 or MUS 26 or MUS 36 or MUS 37

Spring Only

Lec 45 Hrs; Lab 81 Hrs

Continuation of chromatic harmony and introduction of 20th century harmonic techniques, form, musical analysis, and orchestration. Students will do sight-singing and ear-training using the literature of the music of the 19th and 20th centuries.

[CSU; UC] [C-ID MUS 150] [C-ID MUS 155]

# MUS-420. Ensemble Performance for Older Adults (0) Pass/No Pass Only

Students will rehearse and perform a wide range of musical literature. Designed to enrich the quality of life for older adult learners by emphasizing the cognitive and emotional benefits of playing music. These benefits include the ability to manage the stresses and alleviate the pain common to older adults.

#### **NURSING-REGISTERED**

# NRN-46. Health Promotion and Foundational Health Concepts Across the Lifespan (6.5)

**Prerequisite:** Admission to Associate Degree Registered Nursing Program.

Fall Only

Lec 54 Hrs Lab 189 Hrs

Focuses on foundational concepts necessary for the provision of safe nursing care to diverse individuals across the lifespan with a focus on health promotion and professional role acquisition. Application of knowledge and skills occurs across the care continuum: in simulation lab, acute care facilities, and community settings. The core values of comportment, competence, caring, collaboration, and curiosity are introduced.

[CSU]

# NRN-47. Social Determinants of Health (with Special Populations) (1.5)

**Prerequisite:** Admission to Associate Degree Registered Nursing Program.

Fall Only

Lec 18 Hrs Lab 27 Hrs

Focuses on concepts of health promotion, health disparities, culture/spirituality, and family dynamics when providing safe nursing care in non-acute medical-surgical and community settings. Incorporates nursing interventions that considers the impact of social determinants of health and demonstrates sensitivity to the values of others across the life span. The core values of caring and collaboration are emphasized.

[CSU]

#### NRN-48. Nursing Assessment and Interventions (1.0)

**Prerequisite:** Admission to Associate Degree Registered Nursing Program.

Fall Only

Lab 54 Hrs

Focuses on application of foundational concepts when performing fundamental nursing skills in a laboratory setting. Emphasizes collection of subjective data from the health interview and objective data from physical examination as the basis for clinical reasoning and sound clinical judgment across the health-to-illness continuum. The core value of competence is emphasized.

[CSU]

# NRN-49. Introduction to Pharmacology and Medication Administration (1.5)

**Prerequisite:** Admission to Associate Degree Registered Nursing Program.

Fall Only

Lec 18 Hrs Lab 27 Hrs

Focuses on professional nursing and health care concepts and pharmacological principles associated with safe medication administration. Develops competency in medication administration skills across the health-illness and lifespan continuums using care studies, scenarios and simulation. Includes calculation of medication dosages, evaluation of client responses to drug therapy, and use of reliable references. The core values of competence and curiosity are emphasized.

[CSU]

#### NRN-50.41. Supervised Nursing Skills Practice I (0.5)

**Other:** Currently enrolled in the first semester of the Associate Degree nursing program or approval from the Dean of NAH.

Pass/No Pass Only

Fall Only

Lab 27 Hrs

Designed for the registered nursing student during the first semester of study. It facilitates through supervised practice the mastery of fundamental nursing skills in a simulated patient care environment.

[CSU]

#### NRN-50.42. Supervised Nursing Skills Practice II (0.5)

Other: Currently enrolled in the second semester of the
Associate Degree Nursing program or approval from the sing 103 1 Tf Lab 27 Hrs

# NRN-50.43. Supervised Nursing Skills Practice III (0.5)

**Other:** Currently enrolled in the third semester of the Associate Degree Nursing program or approval from the Dean of Nursing and Health Sciences.

Pass/No Pass Only

# NRN-76. Care of Clients with Potential or Actual Multi-system Failure (7.0)

Prerequisite: NRN-66 with a grade of "C" or better.

Spring Only

**Lec** 54 Hrs **Lab** 216 Hrs

Focuses on concepts necessary for provision of safe nursing care to diverse individuals with potential or actual multi-system failure. Builds upon previously learned nursing concepts related to health,

# NRN-227. Success Strategies for 3rd Semester RN Students (0.5)

**Other:** Currently enrolled in the third semester of the Associate Degree Nursing program or approval from the Dean of Nursing and Health Sciences.

Pass/No Pass Only Fall Only Lab 27 Hrs

Designed for third semester registered nursing students interested in reinforcing content and skills presented in third semester nursing courses with emphasis on complex physiological and psychological conditions. Individualized for each student based on identified learning needs. The values of curiosity, collaboration, and competency in nursing practice are reinforced.

# NRN-228. Success Strategies for 4th Semester RN Students (0.5)

**Other:** Currently enrolled in the fourth semester of the Associate Degree Nursing program or approval from the Dean of Nursing and Health Sciences.

Pass/No Pass Only

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## NVN-110. Foundations for Success for Vocational Nursing Students (1)

**Advisory:** Conditional admission to the Vocational Nursing Program.

Spring Only

Lec 5.40 Hrs; Lab 37.80 Hrs

Introduction to professional behaviors, attitudes, and values that lead to academic and professional success in nursing. Historical trends that influenced the role of the nurse as a knowledge-worker and current educational preparation will be explored. Individual working and learning styles, communication methods, and stress reduction are key concepts. A learning environment is created to foster collaboration and curiosity.

#### NVN-119. Vocational Nursing Theory I: Fundamentals (4)

Prerequisite: Admission to the Vocational Nursing Program

Spring Only Lec 72 Hrs

Fundamental nursing concepts specific to the role of the vocational nurse.

# NVN-119.1. Vocational Nursing Clinical I: Fundamentals (4)

Prerequisite: Admission into the Vocational Nursing Program.

Corequisite: NVN-119

**Spring Only Lab** 216 Hrs

Application of the nursing process for the acquisition and practice of fundamental vocational nursing skills.

### NVN-121. Vocational Nursing Theory II: Health Promotion and Maintenance Across the Lifespan (6.5)

Prerequisite: NVN-119.1 and NVN-70 with a grade of "C" or

better OR PSY-25 and NUTR-1 or NUTR-51

Fall Only Lec 117 Hrs

Health promotion and maintenance across the lifespan from preconception to older adulthood specific to the role of the vocational nurse.

### NVN-121.1. Vocational Nursing Clinical II: Health Promotion and Maintenance Across the Lifespan (6.5)

Prerequisite: NVN-119.1 with a grade of "C" or better.

Corequisite: NVN-121

Fall Only
Lab 351 Hrs

Application of the nursing process for health promotion and maintenance across the lifespan from preconception to older adulthood specific to the role of the vocational nurse.

# NVN-123. Vocational Nursing Theory III: Coordination of Care (6.5)

Prerequisite: NVN-121 with a grade of "C" or better.

Spring Only

Lec 117 Hrs

Coordination of care for multiple clients with acute, or life altering conditions, including mental health issues specific to the role of the vocational nurse. Nursing leadership and preparation for a successful career is integral to the course.

# NVN-123.1. Vocational Nursing Clinical III: Coordination of Care (6.5)

Prerequisite: NVN-121.1 with a grade of "C" or better.

Corequisite: NVN-123

**Spring Only Lab** 351 Hrs

Application of the nursing process for the coordination of care across the lifespan specific to the role of the vocational nurse. Utilization of leadership principles for completion of leadership project in clinical setting.

#### NVN-130A. Basic Pharmacology A (1)

Prerequisite: Admission into the Vocational Nursing

program

Corequisite: NVN-119

Spring Only Lec 18 Hrs

Introduction to the nursing process for the study of pharmacology for vocational nurses. Emphasis is on pharmacological principles and medication administration.

#### NVN-130B. Basic Pharmacology B (1)

Prerequisite: NVN-130A with a grade of "C" or better.

Corequisite: NVN-121

Fall Only Lec 18 Hrs

This course provides practical application of the nursing process for the study of pharmacology for vocational nurses. Emphasis is on medications that enhance oxygenation (gas exchange), perfusion, and hormonal regulation, including glucose. Additionally, the course will cover pharmacodynamics and pharmacokinetics across the lifespan.

#### NVN-130C. Basic Pharmacology C (1)

Prerequisite: NVN-130B with a grade of "C" or better.

Corequisite: NVN-123

**Spring Only Lec** 18 Hrs

This course provides practical application of the nursing process for the study of pharmacology for vocational nurses. Emphasis is on the study of selected medications from various drug families/categories using interrelated nursing concepts for clients with acute and chronic conditions across the lifespan. Additionally, focus on role of the vocational nurse in addressing system-wide issues related to safe medication administration.

## NVN-224. Success Strategies for Nursing: Returning Students (1)

Pass/No Pass Only Fall/Spring Lab 54 Hrs

Designed for students returning to the nursing program after a personal or academic leave OR for students transferring into Hartnell's Nursing program after partial completion of a nursing program at another college. Individualized for each student based on identified learning needs and program/semester requirements. Other: Approval of the Dean of Nursing and Allied Health following withdrawal or academic classroom failure in any semester of the wookanious academic classroom failure in any semester of the

## PHL-10. Ethics (3)

Advisory: Eligibility for ENG-1A

All Terms Lec 54 Hrs

Presents an in-depth analysis of major ethical theories and their application to contemporary moral, social, and personal issues. Students will learn to analyze and differentiate the concepts, principles, and operational rules of major ethical theories. Analytically comparing and contrasting these theories, students will develop and use this analytic framework to evaluate contemporary moral issues.

[CSU; UC; CSU-GE, AREA C2; IGETC, AREA 3] [C-ID PHIL 120]

#### PHL-15. Critical Thinking and Logic (3)

Advisory: Eligibility for ENG-1A
Pass/No Pass Option
All Terms

Lec 54 Hrs

Introduces principles of valid reasoning with emphasis on deductive logic. Includes a study of formal techniques of sentential logic and the use of inductive reasoning, language, and fallacies. The concepts

#### PEAC-37. Intermediate Baseball (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Intermediate concepts and skills developed to be a successful athlete on a collegiate baseball team. Lecture, demonstration and field participation will be required. Implementation of offensive and defensive fundamentals, positional strategies, physical fitness and rules will be emphasized.

[CSU; UC]

### PEAC-38. Advanced Baseball (1 - 1.5)

**Advisory:** High school varsity baseball experience or previous collegiate baseball experience is highly recommended.

Lec 13.5 Hrs; Lab 40.5 Hrs

Instruction and practice in offensive and defensive fundamentals with emphasis on strategies and techniques of baseball.

[CSU; UC]

#### PEAC-39. Introduction to Pickleball (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

This course will introduce beginners to the sport of pickleball. This course will emphasize the fundamental strokes, rules, terminology, and etiquette.

# PEAC-40. Speed Training and Conditioning (1 - 1.5)

Pass/No Pass Option

Lec 13.5 Hrs; Lab 40.5 Hrs

The development of strategies and techniques to increase speed and improve agility utilizing the fitness components of cardiovascular/respiratory conditioning, muscular strength and endurance, and flexibility.

[CSU; UC]

#### PEAC-41. Beginning Futsal (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Provides instruction in skills and strategies of Futsal/indoor soccer for the beginning student.

[CSU; UC]

#### PEAC-42. Hydro-Fitness (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Cardiovascular exercise program performed in the pool. The workouts will include a warm up, a series of arm and leg exercises using "Hydro-Fit" system apparatus, and a cool down.

[CSU; UC]

#### PEAC-43. Strength Training (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

A progressive weight training course designed to provide instruction in techniques and training of muscular strength, muscular endurance and muscle definition through the use of free weights and machines. Students may only take four of the following courses: PEAC-43, PEAC-46, PEAC-47, PEAC-49, PEAC-50 or PEAC-69. Each course is not repeatable.

[CSU; UC]

#### PEAC-44. Water Jogging (1 - 1.5)

Lec 13.5 Hrs: Lab 40.5 Hrs

A water exercise class emphasizing cardiovascular endurance, muscular development and flexibility using Hydro-Fit jogging cuffs and Aqua jogger belts.

[CSU; UC]

#### PEAC-46. Circuit Endurance Training (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Circuit training to develop cardiovascular efficiency, strength, endurance and flexibility. Self-monitoring of t rate emphasized throughout the class. Students may only take four of the following courses: PEAC-43, PEAC-46, PEAC-47, PEAC-49, PEAC-50 or PEAC-69. Each course is not repeatable.

[CSU: UC]

### PEAC-47. Strength Conditioning Lab (1 - 1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

A progressive weight training and conditioning course involving use of weight machines, free weights and cardiovascular equipment

#### **PEAC-70. Basketball (1 - 1.5)**

Lec 13.5 Hrs; Lab 40.5 Hrs

A course designed to develop a thorough understanding of the game of basketball. Individual game skills, popular systems of play and strategy, and the rules of the game will be discussed and analyzed. Course will begin with a health screening and baseline or functional capacity fitness assessment.

[CSU; UC]

#### PEIN-21. Intercollegiate Softball for Women (3)

Lab 162 Hrs

Advanced techniques and strategies of competitive intercollegiate softball competition. Thirty-two intercollegiate games. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-22. Intercollegiate Volleyball (3)

**Lab** 162 Hrs

Advanced techniques and strategies of women's competitive intercollegiate volleyball competition. Approximately twenty-eight scheduled games. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-23. Intercollegiate Cross Country (3)

Lab 162 Hrs

Advanced course designed to develop techniques and strategies for intercollegiate cross-country competition. Approximately ten intercollegiate meets are scheduled. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-24. Intercollegiate Track and Field (3)

**Lab** 162 Hrs

Intercollegiate track and field using advanced skills, techniques, and strategies. Eighteen intercollegiate competitions. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-25. Intercollegiate Sports Conditioning (1.5)

Lab 81 Hrs

Advanced strategies for competitive intercollegiate sports competition through the development of cardiovascular endurance, flexibility and strength through the use of weights and cardiovascular equipment with emphasis on specific strategies dependent on the sports activity. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-26. Intercollegiate Baseball (3)

**Lab** 162 Hrs

Advanced techniques and strategies of competitive intercollegiate baseball competition. Approximately thirty-two intercollegiate games. May be taken up to four times.

[CSU; UC]

#### PEIN-27. Intercollegiate Swimming and Diving (3)

**Lab** 162 Hrs

Advanced course designed to develop techniques and strategies for intercollegiate swimming and diving competition. Approximately eleven intercollegiate meets are scheduled. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-28. Intercollegiate Beach Volleyball (3)

Lab 162 Hrs

Advanced techniques and strategies of women's competitive intercollegiate beach volleyball competition. Approximately 15 scheduled games. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-29. Intercollegiate Water Polo (3)

**Prerequisite:** Intended for students with varsity high school experience who are preparing for competitive intercollegiate water polo.

Lab 162 Hrs

Instruction and scheduled competitions for participation in Intercollegiate Water Polo representing Hartnell College. Student-athletes must meet eligibility requirements as designated by the California Community Colleges Athletic Association (CCCAA). May be taken up to four times for credit.

#### PEIN-30. Preseason Sport Conditioning, Basketball (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level. Course content will emphasize methods to give basketball players an opportunity to improve fitness, strength, and flexibility to minimize injury potential to men/women interested in intercollegiate basketball in a preseason setting. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-32. Pre-Season Sport Conditioning (1)

Lec 13.5 Hrs: Lab 14 Hrs

Designed for the student who wishes to compete at the intercollegiate level. Course content will emphasize pre-season conditioning for one of the following sports: baseball, track, cross country, soccer, softball, swimming and diving, and volleyball. It is an intensive training program based upon improving basic skills, speed, flexibility, agility, reaction time, coordinated movement and

#### PEIN-41. Nontraditional Season, Soccer (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced soccer players an opportunity to improve skills, fitness level, and tactical understanding of soccer. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of Soccer. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1 May be taken up to four times for credit.

[CSU; UC]

#### PEIN-42. Nontraditional Season, Volleyball (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced volleyball players an opportunity to improve skills, fitness levels, and the tactical understanding of volleyball. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of Volleyball. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-43. Nontraditional Season, Baseball (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced baseball players an opportunity to improve skills, fitness levels and tactical understanding of baseball. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of baseball. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-44. Nontraditional Season, Softball (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced softball players an opportunity to improve skills, fitness levels and tactical understanding of softball. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of softball. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-45. Nontraditional Season, Track and Field (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced track and field participants an opportunity to improve skills, fitness levels and tactical understanding of track. Emphasis will be placed on performance in competitive situations during class and participants in California Community College Athletic Association's Nontraditional Season of Track and Field. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw, 3.17.1. May be taken four times for credit.

[CSU; UC]

#### PEIN-46. Nontraditional Season, Football (1.5)

Lec 13.5 Hrs: Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced football players an opportunity to improve skills, fitness levels and tactical understanding of football. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of Football. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-47. Nontraditional Season, Swim and Dive (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced swimmers and divers an opportunity to improve skills, fitness levels, and the tactical understanding of swim and dive. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of swim and dive. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA Bylaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-48. Nontraditional Season, Beach Volleyball (1.5)

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced beach volleyball players an opportunity to improve skills, fitness levels, and the tactical understanding of beach volleyball. Emphasis will be placed on performance in competitive situations during class and participation in California Community College Athletic Association's Nontraditional Season of beach Volleyball. Students must have a current medical physical on file to participate in nontraditional competitions. CCCAA ByLaw 3.17.1. May be taken up to four times for credit.

[CSU; UC]

#### PEIN-49. Nontraditional Season, Water Polo (1.5)

**Prerequisite:** Intended for students with varsity high school experience who are preparing for competitive intercollegiate water polo.

Lec 13.5 Hrs; Lab 40.5 Hrs

Designed for the student who wishes to compete at the intercollegiate level and gives experienced water polo players an opportunity to improve skills, fitness levels, and the tactical

## PHY-4A. General Physics I/ Mechanics (4)

**Prerequisite:** MAT-3A with a grade of "C" or better.

Lec 54 Hrs; Lab 54 Hrs

Core topics include vectors and scalars, translational kinematics,

#### POL-3. Introduction to International Relations (3)

Advisory: Eligibility for ENG-1A

Fall Only Lec 54 Hrs

Focused on the practice and theory of international relations within the framework of traditional orientations and alternative approaches to international politics. Traditional orientations and alternative approaches to international politics are utilized to analyze divergent political orientations, organizational structures, approaches to conduct, pursuing peace, and the global economy. Topics include the evolution of world politics, levels of analysis and foreign policy, nationalism, globalization and transnationalism, the nation-state, intergovernmental organizations, diplomacy, international law and human rights, and international political economy. Contemporary issues in international relations will be presented from a variety of viewpoints.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID POLS 140]

# POL-5. Chicano Politics and the American Political System (3)

Advisory: ENG-1A and POL-1

Fall Only Lec 54 Hrs

A survey of U.S. and California political institutions, including the U.S. Constitution as it relates to Chicanos. Chicano organizations, political models, ideology, political participation, and leadership will be studied. The role of race, class, immigration status, sex, gender, identity and the struggle for social justice, equality and political participation will be examined. The role of the media and polling will also be examined. Not open to students who have completed ETH-5 with a grade of "C" or better.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4]

## POL-6. Introduction to Political Theory & Thought (3) Spring Only

Lec 54 Hrs

This course is an introduction to various theoretical approaches to politics and basic political problems and proposed solutions as developed over the course of 2,500 years of Western political thought. Course topics include the correlation between ideology and democracy, liberalism, conservatism, socialism, and contemporary liberation ideologies as applied to the politics of identity. Contemporary issues in political theory will be presented from a variety of viewpoints.

[CSU; UC; CSU-GE; AREA D; IGETC, AREA 4]

#### **PSYCHOLOGY**

#### PSY-2. General Psychology (3)

Advisory: Eligibility for ENG-1A

All Terms
Lec 54 Hrs

Introduction to the fundamental principles and concepts of human behavior and mental processes. Topics include psychology as a science, biological bases of behavior, lifespan development, perception, conditioning and learning, memory, cognition, motivation and emotion, personality, psychological disorders, methods of therapy, and social and applied psychology. Recommended for college and university transfer students. Not open to students who have completed PSY-1A with a grade of "C" or better.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID PSY 110]

#### PSY-6. Social Psychology (3)

**Advisory:** PSY-2; Eligibility for ENG-1A **Fall/Spring** 

Lec 54 Hrs

Survey of scientific theories and research on the nature, causes, and consequences of group and individual behavior within a social context. Topics include aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, social cognition, and altruism.

[CSU; UC; CSU-GE, AREA D; IGETC AREA 4] [C-ID PSY 170]

#### PSY-9. Research Methods in Psychology (4)

Prerequisite: PSY-2 and MAT-13 with a grade of "C" or

better.

Advisory: Eligibility for ENG-1A

Fall/Spring

Lec 54 Hrs Lab 54 Hrs

Scientific methods of investigating behavior and mental processes. Students will understand and apply basic research methods in psychology, including research design, review of professional literature, data analysis, and interpretation. The ethics of research with human and animal subjects will be included. In laboratory sessions students will conduct research, analyze data and interpret results.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4] [C-ID PSY 205B]

#### PSY-10. Introduction to Biological Psychology (3)

Prerequisite: PSY-2 with a grade of "C" or better.

Advisory: Eligibility for ENG-1A

Fall/Spring Lec 54 Hrs

An advanced consideration of the relationship between the brain and behavior emphasizing the structure and function of neurons and other components of the nervous system. The contributions, philosophy, and ethics of research on humans and animals will be examined. Other topics include brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, motivation, learning, memory, language, and cognition as well as disorders that arise from nervous system malfunctioning.

[CSU; UC; CSU-GE, AREA B2; IGETC, AREA 5]

[C-ID PSY 150]

#### PSY-12. Theories of Personality (3)

Advisory: PSY-2; Eligibility for ENG-1A Fall Only

Lec 54 Hrs

A comparative analysis of the major theories of personality theory integrating research and assessment techniques. Theoretical perspectives will include psychoanalytic, psychodynamic, humanistic, behavioral, cognitive, trait, social learning, and cross-cultural approaches.

[CSU; UC; CSU-GE, AREA D; IGETC, AREA 4]

#### PSY-14. Child Psychology (3)

Advisory: Eligibility for ENG-1A

Fall/Spring Lec 54 Hrs

A survey of the psychological growth from conception through adolescence. Particular emphasis is given to physical, cognitive, and emotional development as well as biological and social influences. Topics will include an analysis of classic and contemporary theories and issues within the field of child psychology.

[CSU; UC; CSU-GE, AREA D, E; IGETC, AREA 4]

#### PSY-15. Human Sexuality (3)

All Terms

Lec 54 Hrs

A current and comprehensive introduction to the topic of human sexuality from the psychological, biological, sociocultural, and historical perspectives. Laboratory and survey research, findings from clinical experience, and historical sources will be analyzed. Topics to be discussed include (but are not limited to) sexual anatomy, sexual beliefs, values and expression, and concerns related to human sexuality. The various methods of contraception and safer sex practices will be evaluated. Current sex norms and aspects of interpersonal and individual sexual adjustment will be explored.

[CSU; UC; CSU-GE, AREA D, E; IGETC, AREA 4] [C-ID PSY 130]

#### PSY-22. Abnormal Psychology (3)

Prerequisite: PSY-2 with a grade of "C" or better.

Advisory: Eligibility for ENG-1A

Fall/Spring Lec 54 Hrs

| PSY-41. | Psychology | of Human | Relations ( | (3) |
|---------|------------|----------|-------------|-----|
|         |            |          |             |     |

#### RCP-60. Diagnostics Studies & Respiratory Care (3)

Prerequisite: RCP-50 with a grade of "C" or better.

Corequisite: RCP-63

Spring Only Lec 54 Hrs

Cardiopulmonary assessment, cardiac monitoring and critical thinking skills are used to guide respiratory care. Diagnostic studies are analyzed as they relate to respiratory care. Invasive and non-invasive cardiopulmonary monitoring, polysomnography, pulmonary rehabilitation, and home care evaluation are presented. **[CSU]** 

#### RCP-61. Respiratory Therapeutics (3)

Prerequisite: RCP-51 with a grade of "C" or better.

Corequisite: RCP-63

Spring Only

Lab 36 Hrs Lec 54 Hrs

Basic ventilation and airway management strategies in various settings are described. Arterial blood gas sampling and analysis are reviewed and demonstrated with the focus on patient safety. Lung function test and diagnostic imaging are reviewed.

[CSU]

#### RCP-62. Cardiopulmonary Pathophysiology (2)

Prerequisite: RCP-52 with a grade of "C" or better.

Corequisite: RCP-63

Spring Only Lec 36 Hrs

Various cardiopulmonary disorders including; infection, cancer, obstructive conditions, restrictive conditions and pulmonary vascular disease. Patient care plans for specific disease processes are

discussed for use in multiple health care settings.

[CSU]

#### RCP-63. Beginning Clinical Experience (4)

**Prerequisite:** RCP-53 with a grade of "C" or better. **Corequisite:** RCP-60, RCP-61, RCP-62 and RCP-64

Pass/No Pass Only

Spring Only

**Lab** 216 Hrs

Beginning respiratory care procedures and therapeutics are introduced in lab and clinical settings. Oxygen delivery devices, aerosol therapy, sputum mobilization techniques, suctioning and airway inflation strategies are practiced. Utilizing professional communication and critical thinking skills, the student will assess the patient's clinical manifestations, pertinent history, laboratory and diagnostic data to plan patient care.

[CSU]

#### RCP-64. Supervised Practice: Beginning (0.5)

Prerequisite: RCP-54 with a grade of "C" or better.

Corequisite: RCP-63
Pass/No Pass Only
Spring Only
Lab 27 Hrs

Application of the respiratory care process for the study of beginning respiratory care skills required for bedside care. Emphasis is on cardiopulmonary assessment, interpretation of lab data, obtaining an arterial blood gas (ABG) sample, oxygen delivery, and medication administration that is necessary to provide care for the hospitalized patient. The value of competence in cardiopulmonary assessment, ABG, oxygen delivery, intubation and medication administration are emphasized.

[CSU]

# RCP-70. Neonatal and Pediatric Respiratory Care Responsibilities (2)

Prerequisite: RCP-60 with a grade of "C" or better.

Corequisite: RCP-73

Fall Only Lec 36 Hrs

Assessment and care of neonatal and pediatric patients are introduced. Fetal development, maternal high-risk conditions and neonatal resuscitation are reviewed. Specific neonatal and pediatric cardiopulmonary disorders are identified. Invasive and non-invasive cardiopulmonary monitoring and diagnostic testing are discussed.

[CSU]

#### RCP-71. Basic Mechanical Ventilation (3)

Prerequisite: RCP-61 with a grade of "C" or better.

Corequisite: RCP-73

Fall Only

Lec 36 Hrs; Lab 54 Hrs

Mechanical ventilation is introduced as patient safety is emphasized. Indications for intubation and mechanical ventilation are discussed. Classifications of mechanical ventilators, modes of operation, and internal and external components of ventilators are introduced. Effects of positive pressure ventilation on body systems are reviewed. Patient management, mechanical ventilation and cardiopulmonary monitoring, mode selection with rationale, and trouble-shooting of mechanical ventilation are reviewed.

[CSU]

#### RCP-72. Neurologic & Traumatic Conditions (2)

Prerequisite: RCP-62 with a grade of "C" or better.

Corequisite: RCP-73

Fall Only Lec 36 Hrs

Neurological effects on respiratory function are explored. The pathophysiology of motor and sensory injury to the cardiopulmonary system is reviewed. Patient assessment, respiratory interventions, pain management and Acute Respiratory Distress Syndrome (ARDS) are discussed. Emergency, acute and long-term cause and effects of pulmonary injury are evaluated. The role of the Respiratory Care Practitioner (RCP) in supporting

#### RCP-110. Foundations for Success (1)

**Prerequisite**: Admission to the Respiratory Care Practitioner

Program

Pass/No Pass Only

Fall Only

Lec 6 Hrs; Lab 38 Hrs

Introduction to professional behaviors, attitudes, and values that lead to academic and professional success as a respiratory care practitioner. Historical trends that influenced the role of the respiratory care practitioner as a knowledge-worker and current educational preparation will be explored. Test taking strategies, study skills, individual learning styles, communication, and stress reduction are explored. The learning environment is created to foster collaboration and curiosity.

# RCP-225. Success Strategies for 1st Semester RCP Students (0.5)

**Other:** Admission to the RCP program or permission of the Director of RCP program following withdrawal from or failure in any RCP 50 series course (RCP 50, 51, 52, 53, 54).

Pass/No Pass Only Fall/Spring Lab 27 Hrs

## RCP-703. Healthcare Research (3)

**Prerequisite:** Admission to the Bachelor of Science in

Respiratory Care Program

## SJS-21. Introduction to African American Studies (3) Fall/Spring

Lec 54 Hrs

This course is an overview of African American studies as a discipline, and of its relationship to social justice studies. Interdisciplinary approaches will be employed in studying and understanding the experiences of African Americans. Critical analysis of the various perspectives and contributions of African Americans in the development and growth of the United States will be central. This includes areas from politics, to economics, to education. The course is intended for students who plan to pursue a degree with emphasis in African American studies and for students interested in gaining

#### SOC-20. Sociology of Gender and Society (3)

Advisory: SOC-1; Eligibility for ENG-1A

Fall/Summer Lec 54 Hrs

A current and comprehensive sociological examination of masculinity and femininity as socially constructed from a macro-analysis of how institutions shape gender and micro-analysis of how individuals are socialized and "do" gender in the United States. Topics to be discussed may include socialization, gender and globalization, gender stereotypes, institutions on gendered

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#### SPA-2. Elementary Spanish 2 (5)

**Prerequisite:** SPA 1X with a grade of "C" or better or SPA 1S with a grade of "C" or better or SPA 1 with a grade of "C" or better or two years of high school Spanish or demonstration of language proficiency to level.

Pass/No Pass Option All Terms

Lec 90 Hrs

Continuation of SPA-1 with further development of listening, speaking, reading, and writing skills, with Spanish as the primary

## SPA-4S. Intermediate Spanish 2 for Spanish Speakers (5)

**Prerequisite:** SPA-3S or SPA-3, or demonstration of proficiency to level. This proficiency is determined according to Hartnell College's Prerequisite Clearance and Challenge processes. All prerequisites must be completed with a grade of "C" or better.

# TAC-27. Scenic Painting, Properties, and Technical Production Techniques (3)

Pass/No Pass Option

Lec 18 Hrs; Lab 108 Hrs

Designed to teach the basic skills, concepts, and methods of beginning and intermediate scenic painting and properties execution for the stage, providing practical experience in the application of production responsibilities in scenic painting, properties and technical theatre. Covers the theater plant, theater personnel, scenic painting and properties execution, technical theatre elements, and their applications. Students will work on a series of projects which will culminate in finished scenic painting and properties and technical production execution for a fully realized production of a play, musical or a series of the two. Not open to students who have completed THA-27 with a grade of "C" or better. [CSU; UC] [C-ID THTR 192]

#### TAC-28. Makeup/Hair Techniques for the Stage (3) Pass/No Pass Option

Lec 18 Hrs; Lab 108 Hrs

Designed to teach the basic techniques for the effective application of theatrical makeup and hair at the beginning level for the stage. The student will gain a practical, working knowledge of the principles of highlighting, shadowing, and contouring the human face with makeup. Explorations into the basic techniques involved in working with crepe hair, and various three-dimensional processes shall also be undertaken as the character and/or design requires. The relationships between the makeup designer, costume designer, wardrobe mistress, and makeup/dressing crew member will be emphasized. Students will work on a series of projects which will culminate in finished make-up design for a play, musical or a series of the two. Not open to students who have completed THA-28 with a grade of "C" or better.

[CSU; UC] [C-ID THTR 192]

TAC-29. Stage Lighting ge. m (ek)-4.4 f

## TAC-50. Introduction to Film: History Up to the 1960'S (3) Pass/No Pass Option

Fall

Lec 54 Hrs

This course introduces the history and close analysis of film and early television texts from 1849-1960. The course examines the broad questions of form and content, aesthetics and meaning, and history and culture within the context of film, cinematic, and television media. Students will explore the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, acting styles, visual design, editing, so

#### JPA ADMINISTRATIVE OF JUSTICE

#### South Bay Regional Public Safety Training Consortium

As a member of the South Bay Regional Public Safety Training Consortium, Hartnell College offers courses for students who are interested in Correctional officer, Law Enforcement, Reserve Police Officer, Dispatcher, Fire Technology, Probation Officer, or Juvenile Hall Counselor careers. The Consortium is funded by member colleges to provide vocational specific training which may require special facilities, special training conditions, or is presented outside of the regular schedule of college classes.

The application and registration process are completed at the South Bay Regional Public Safety Training Consortium Center campus. Although open to the public, the majority of these courses are intended to serve those who are already employed in these fields. If you have questions about these courses, or if you would like information about a career in any of these areas, please call (408) 270-6458 or visit the South Bay webpage at <a href="https://www.theacademy.ca.gov">www.theacademy.ca.gov</a>

JFA and JFS courses do not follow the Hartnell College numbering pattern. All courses are degree applicable; courses followed by a [CSU] notation transfer to CSU

#### JAJ-1. PC Par Laws of Arrest (1)

Prerequisite: Requires each applicant not sponsored by a local or other law gency, or not a peace officer employed by a state or local agency, department, or district, tipn from the Department of luctice (Penal Code section 1211 E) that halchabas to criminal history bac accompany or having a frequent under his (hor control).

Lec 4 Hrs; Lab

communications, and arrest techniques. The PC 832 Arrest and Control is the minimum training standard for California peace officers as specified in Commission Regulation 1005. This training may be met by successful completion of a basic training course (e.g., Regular Basic Course, Specialized Investigators' Basic Course, and

[CSU]

certified course.

#### JAJ-11. Special Weapons & Tactics (SWAT) (3 - 5)

Prerequisite: POST Basic Certificate and Penal Code Section 13511.5 requires that each applicant for admission to a course of training certified by the Commission (including the PC 832 course) that include the commission (including the PC 832 course) that include the commission (including the PC 832 course) that include the course ing and use of firearms, and who is not sponsored by a local contract law enforcement agency, or is not a peace officer employed by a state or local agency, department, or district, shall be required to submit written certification from the Department of Justice that the applicant has no criminal history hackaround which would disqualify him or her, from owning, or possessing, or having

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Pass/No Pass Only Lec

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#### JAJ-14. Officer Safety/Field Tactics (0.5 - 1)

Pass/No Pass Only Lec 8 Hrs; Lab 32 Hrs

Prerequisite: POST Basic certificate or equivalent

Focuses on officer safety tactics and skills including basic field techniques of officer safety, firearms, and arrest and control

techniques. Examines contempor

#### JAJ-99. Basic Motorcycle (2)

Prerequisite: 1. Commission on Police Officer Standards & Training (POST) certified basic Law enforcement academy diploma or equivalent as determined by the Dean of Academy Instruction. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. 2. Prior to beginning this course students must already be familiar with, and be able to demonstrate all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced officer training that builds upon them. These minimum knowledge and skill levels are regarding: Officer Safety. Proper and safe arrest and control technique. Proper and safe ground fighting technique

#### Pass/No Pass Only

Provides basic skills for motorcycle traffic patrol duties. Course includes Car Stop, Safety, Cone patterns, inspection and skill review.

[CSU]

#### JAJ-103. Field Training Officer (1

Prerequisite: Must complete POST Basic Course or equivalent.

Pass/No Pass Only Lec 4Hrs; Lab 36 Hrs

This 40-hour course meets minimum California Commission on

Peace Officer Standar))OSTcOSTcr (A)-8e())-8 m.5 (t)-7s (SUT)3.5 3OftoTOSTro

JAJ-166. Crime Scene & Forensic Photography (0.5)

Prerequisite: POST Basic Certificate or Equivalent.

Pass/No Pass Only

Lec

#### JPA FIRE SCIENCE

# JFS-206. Hazardous Materials 1F- Special Mitigation Techniques (1)

Prerequisite: JFS-205 with a grade of "C" or better.

Lec 8 Hrs; Lab 32 Hrs

Intensive "hands-on" introduction to specialized mitigation techniques employed by the Hazardous Materials Specialist. Instruction includes plugging, patching, and repairing railroad cars, intermodel tanks, and highway cargo tank cars, advanced chemical field identification testing procedures, and fixed facility repair considerations.

## JFS-207. Hazardous Materials 1G -Advanced Field Operations (1)

**Prerequisite:** JFS-206: Hazardous Materials 1F - Special Mitigation Techniques with a grade of "C" or better.

Lec 8 Hrs; Lab 32 Hrs

Culmination of Modules 1A-1Fin an environment of "hands-on" full-scale exercises. Includes evaluation of performance as a member of a haz mat team in a series of simulated haz mat incidents.

#### JFS-210. First Aid/CPR Instructor (1)

Pass/No Pass Only

Lec 8 Hrs; Lab 32 Hrs

This course prepares students to present instruction and certify physical skills in accordance with Title 22, California Code of Regitle 22, Cali9 (y)12.2 (s)-2.9 (ical skills )7.5 (in accordance wi) At(zals )7.5as429a (1) as as cer WF43 (a) Ils 6

#### JFS-219. Paramedic-Clinical (4-7)

#### Pass/No Pass Only

Lab398 Hrs

Application of skills that demonstrate principles and concepts of anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. The students will rotate through specialty areas of the hospital departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, other selected hospital areas, assisted Living, Skills Nursing Facilities, and facilities for the mentally and physically challenged.

#### JFS-225. Fire Fighter I Academy (18)

**Prerequisite:** 1. Certified Emergency Medical Technician diploma or equivalent as determined by the Dean of Academy Instruction. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will

JFS-290. Intermediate Wildland Fire Behavior