#### California University of Pennsylvania

250 University Avenue California, PA 15419-1394 www.cup.edu

OFFICE OF ARTICULATION AND TRANSFER EVALUATION

Building Character. Building Careers.

724-938-5939 ? 724-938-4564 FAX

March 28, 2008

CCAC

ATTN: Frances K. Dice
College Office

800 Allegheny Avenue Pittsburgh, PA 15233-1895

RE: TED Agreement

Dear Fran:

Enclosed is a fully executed agreement between California University of Pennsylvania and CCAC.

Sincerely,

Belinda L. Smith Director, Articulation

and Transfer Evaluation

**Enclosures** 

BLS/mas

# COMMUNITY COLLEGE OF ALLEGHENY COUNTY AND CALIFORNIA UNIVERSITY OF PENNSYLVANIA ARTICULATION AGREEMENT

THIS AGREEMENT, dated this 1st day of March, 2008, is made by and between, the Community College of Allegheny County, hereinafter called, "CCAC", and California University of Pennsylvania, hereinafter called "CAL U".

CCAC and CAL U acknowledge their shared mission to provide quality higher education programs, which meet the needs of the region and provide a workforce of highly trained residents.

#### I. <u>PURPOSE</u>

The primary purpose of this Agreement is to enhance the transferability between CCAC's Associate of Science Degree Programs in Architectural Drafting and Design Technology, Civil Engineering Technology, Computer-Aided Drafting and Design Technology, Manufacturing Technology (Controls, Machining, Nanofabrication or Welding track), Mechanical Drafting and Design Technology, Microcomputer Electronics Technology, Robotics and Automated Systems Technology, or Science and Engineering Technology and CAL U's Bachelor of Science in Education with certification in Technology Education. A secondary purpose is to provide faculty and administration of both institutions with more precise guidelines for advising students interested in pursuing a Bachelor of Science in Education with certification in Technology Education.

Exhibit A, consisting of eleven (11) pages, attached hereto and incorporated herein, outlines the courses that will be accepted from CAL U. Exhibit B, consisting of twenty-two pages (22), attached hereto and incorporated herein, outlines the courses necessary for the Bachelor of Science in Education Degree with Certification in Technology Education from CAL U.

#### II. MUTUAL TERMS AND CONDITIONS

- A. Term of the Agreement. This Agreement shall be in effect for five (5) years from the date of signature and will be reviewed annually for accuracy.
- B. Termination of the Agreement. CCAC and CAL U may terminate this Agreement for any reason or no reason with ninety (90) days written notice from either party. Either party may terminate this Agreement in the event of a substantial breach. However, should either party terminate this Agreement, all students enrolled at that time may continue their educational experience until it would have been concluded absent the termination.
- C. Non-discrimination. The parties agree to continue their respective policies of non-discrimination based on Title VI of the Civil Rights Act of 1964 in regard to sex, age, race, color, creed, national origin, Title IX of the Education Amendments of 1972 and other applicable laws, as well as the provisions of the Americans with Disabilities Act.

- D. Interpretation of the Agreement. The laws of the Commonwealth of Pennsylvania shall govern this Agreement.
- E. Modification of Agreement. This Agreement shall only be modified in writing with the same formality as the original Agreement.
- F. Relationship of Parties. The relationship between the parties to this Agreement to each other is that of independent contractors. The relationship of the parties to this contract to each other shall not be construed to constitute a partnership, joint venture or any other relationship, other than that of independent contractors.
- G. Liability. Neither of the parties shall assume any liabilities to each other. As to liability to each other or death to persons, or damages to property, the parties do not waive any defense as a result of entering into this contract. This provision shall not be construed to limit the Commonwealth's rights, claims or defenses which arise as a matter of law pursuant to any provisions of this contract. This provision shall not be construed to limit the sovereign immunity of CCAC or that of the Commonwealth, or the State System of Higher Education, or CAL U.
- H. Entire Agreement. This Agreement represents the entire understanding between the parties. No other prior or contemporaneous oral or written understandings or promises exist in regards to this relationship. Any changes, corrections or additions to this contract shall be in writing in the form of a supplemental agreement signed by all necessary parties and setting forth therein the proposed change, correction, or addition.

IN WITNESS WHEREOF, the authorized representatives of the parties have executed this Agreement as of the date previously indicated.

Community College of Allegheny County

Dr. Michael Murphy

Interim President

Community College of Allegheny County

California University of Pennsylvania

Dr. Sean C. Madden, Provost and Vice President for Academic Affairs

California University of Pennsylvania

Approved as to form and legality:

MAR 19 2008

#### ATTACHMENT A

| Architectural Drafing & Design        | C  | Cal U                            |     |
|---------------------------------------|----|----------------------------------|-----|
|                                       |    | Cal U Equivalent                 | Cr  |
| First Semester                        | T  |                                  |     |
| EDD 101 Engineering Drawing !         | 3  | ITE 110 Technical Drawing 1      | 3   |
| EDD 120 Intro to CAD                  | 4  | ITE 215 CAD 1                    | 4   |
| EGR 100 Engineering Seminar           | 1  | UNI 100 First Year Seminar       | 1   |
| PHY 113 Technical Physics 1           | 3  | PHY 121 General Physics I        | 3   |
| MAT 114 Math for Technologies 1       | 4  | College Algebra                  | 4   |
| S                                     |    |                                  |     |
| Second Semester                       | 4  | <u> </u>                         |     |
| EDD 102 Engineering Drawing 2         | 3  | Technical Elective               | 3   |
| EDD 121 CAD Applications              | 4  | ITE 162 Industrial Tech Elective | 4   |
| MAT 116 Math for Technologies 2       | 4  | MAT 191 College Trig             | 4   |
| MET 115 Architectural Sys Design      | 3  | Technical Elective               | 3   |
| Soc Sci Elect: PSY 101 Int to Psych   | 3  | PSY 100 General Psychology       | 3   |
|                                       |    |                                  |     |
| Third Semester                        |    |                                  |     |
| CET 201 Materials of Construction     | 3  |                                  | 3   |
| EDD 141 Structural Drafting           | 3  | Technical Elective               | 3   |
| EDD 230 Architectural Drafting        | 4  | Technical Elective               | 4   |
| ENG 101 English Composition 1         | 3  | ENG 101 English Composition I    | 3   |
| MET 150 Statics                       | 4  | Technical Elective               | 4   |
| · · · · · · · · · · · · · · · · · · · |    |                                  |     |
| Fourth Semester                       |    |                                  |     |
| EDD 245 Adv Engineering Draw          | 4  | Technical Elective               | 4   |
| ENG 103 Technical Communications      | 3  | ENG 217 Science & Tech Writing   | 3   |
| MET 211 Strength of Materials         | 4  | ITE 325 Statics & Strengths      | 4   |
| Humanties - Literature requirement    | 3  | HLC 162 Humanities Elective      | 3   |
|                                       | 63 |                                  | -63 |

| P                          |          |
|----------------------------|----------|
| Application at Cal U for   |          |
| Technology Ed              | C        |
|                            | $T^{-}$  |
| use for TED 105            | 3        |
| Technical Elective         | 4        |
| use for First Year Seminar | 1        |
| use for Natural Science    | 3        |
| use for Math               | 4        |
|                            |          |
|                            |          |
| Free Elective              | 3        |
| Technical Elective         | 4        |
| use for Major Requirement  | 4        |
|                            |          |
| use for Soc Sci            | 3        |
|                            |          |
|                            | <u> </u> |
|                            |          |
|                            |          |
|                            |          |
| ise for Comm Skills        | 3        |
|                            |          |
|                            | _        |
|                            |          |
|                            |          |
| ub for Eng Comp II         | 3 4      |
| echnical Elective          | 4        |
| se for Lit requirement     | 3        |
|                            | 42       |
|                            |          |

| Civil Engineering Technology        | C  | r Cal U                     |  |   |
|-------------------------------------|----|-----------------------------|--|---|
|                                     |    | Cal U Equivalent            | C  | 7 |
| First Semester                      |    |                             |  | _ |
| EDD 101 Engineering Drawing 1       | 3  | ITE 110 Technical Drawing I | 3  | _ |
| EGR 100 Engineering Seminar         | 1  | UNI 100 First Year Seminar  | 1  | _ |
| EGR 110 Engineering Surveying       | 4  | TLC 162 Technology Elective | 4  | _ |
| MAT 114 Math for Technologies 1     | 4  | MAT 181 College Algebra     | 4  | _ |
| Engineering Elective                | 3  | Technology Elective         | 3  |   |
| Second Semester                     | +  |                             | +  | 4 |
| EDD 120 Intro to CAD                | 4  | ITE 215 CAD 1               | 4  | 1 |
| PHY 141 Physics 1                   | 4  | PHY 121 General Physics     | 4  | 1 |
| MAT 116 Math for Technologies 2     | 4  | MAT 191 College Trig        | 4  | 1 |
| Engineering Elective                | 3  | Technology Elective         | 3  | 1 |
| Engineering Elective                | 3  | Technology Elective         | 3  | 1 |
|                                     | T  |                             | <del>                                     </del> | 1 |
| Third Semester                      |    |                             |  | 1 |
| ENG 101 English Comp 1              | 3  | ENG 101 English Comp I      | 3  | 1 |
| CET 202 Soils in Construction       | 4  | ELC 162 Free Elective       | 4  | l |
| MET 150 Statics                     | 4  | TLC 162 Technology Elective | 4  | l |
| PHY 142 Physics 2                   | 4  | PHY 122 General Physics 2   | 4  | l |
| Soc Sci Elect: PSY 101 Int to Psych | 3  | PSY 100 General Psychology  | 3  |   |
| Fourth Semester                     |    |                             | +  |   |
| CET 201 Mats of Construction OR     | 3  | ELC 162 Free Elective OR    | 3  |   |
| CET 205 Bldg Constr & Steel Des     | 3  | ELC 162 Free Elective       | 3  |   |
| ENG 102 English Comp 2              | 3  | ENG 102 English Comp II     | 3  |   |
| MET 211 Strength of Materials       | 4  | ITE 325 Statics & Strength  | 4  |   |
| Humanities                          | 3  | HLC 162 Humanities Elective | 3  |   |
| Engineering Electives               | 3  | Technology Elective         | 3  |   |
|                                     | 67 | 3/                          | 67   |   |

| Application at Cal U for   |    |
|----------------------------|----|
| Technology Ed              | С  |
|                            | T  |
| use for TED 105            | 3  |
| use for First Year Seminar | 1  |
| Technical Elective         | 4  |
| use for Math               | 4  |
|                            | Ţ  |
|                            | 7  |
|                            | 7  |
| Technical Elective         | 4  |
| use for Natural Science    | 4  |
| use for Major requirement  | 4  |
|                            | T  |
|                            | Т  |
|                            |    |
|                            |    |
| use for Comm Skills        | 3  |
| use for Free Elective      | 4  |
|                            |    |
| ise for Natural Science    | 4  |
| ise for Soc Sci            | 3  |
|                            |    |
|                            |    |
|                            |    |
|                            |    |
| se for Comm Skills         | 3  |
| echnical Elective          | 4  |
| se for Humanities          | 3  |
|                            |    |
|                            | 48 |

| Computer-Aided Drafting             | C  | 7   | Cal U                          | $\neg \vdash$ |
|-------------------------------------|----|-----|--------------------------------|---------------|
| & Design Technology                 |    | ٦   | Cal U Equivalent               | C             |
| First Semester                      |    | ٦   |                                |               |
| EDD 101 Engineering Drawing 1       | 3  | ٦   | ITE 110 Technical Drawing 1    | 13            |
| EDD 120 Intro to CAD                | 4  | ٦   | ITE 215 CAD I                  | 4             |
| EGR 100 Engineering Seminar         | 1  | ٦   | UNI 100 First Year Seminar     | 1             |
| ENG 101 English Comp 1              | 3  | 7   | ENG 101 English Comp 1         | 3             |
| MAT 114 Math for Technologies 1     | 4  | 7   | MAT 181 College Algebra        | 4             |
|                                     |    | 1   |                                | +             |
| Second Semester                     |    | 71  |                                | +-            |
| EDD 102 Engineering Drawing 2       | 3  | 11  | ITE 210 Technical Drawing 2    | 3             |
| EDD 121 CAD Applications            | 4  | 11  | ITE 162 Indust Tech Elective   | 4             |
| ENG 103 Technical Commun            | 3  |     | ENG 217 Science & Tech Writing | 3             |
| MAT 116 Math for Technologies 2     | 4  | 11  | MAT 191 College Trig           | 4             |
| SET 105 Technical Computing         | 3  |     | CSC 120 Prob Solv/Prg Const    | 3             |
|                                     |    | 11  |                                | Ť             |
| Third Semester                      |    | 11  |                                | +             |
| EDD 130 Solid Modeling Techn        | 3  | lli | TE 162 Indus Tech Elective     | 3             |
| EDD 222 Customizing the CAD env     | 3  |     | TLC 162 Technology Elective    | 3             |
| EDD Adv Drafting Elective           | 3  | 15  | TLC 162 Technology Elective    | 3             |
| PHY 113 Technical Physics 1         | 3  | F   | PHY 121 General Physics I      | 3             |
| EDD 135 Intro to Parmetric Mod 1    | 3  | Ī   | LC 162 Technology Elective     | 3             |
|                                     |    | Γ   |                                | Ť             |
| Fourth Semester                     |    |     |                                | П             |
| EDD 221 Parmetric Mod 2             | 3  | m   | TE 215 CAD I                   | 3             |
| Humanities - Literature Course      | 3  |     | ILC 162 Humanities Elective    | 3             |
| Social Science - take PSY 101 Intro | 3  |     | SY 100 General Psychology      | 3             |
| Technical Elective                  | 3  |     | echnical Elective              | 3             |
| echnical Elective                   | 3  |     | echnical Elective              | 3             |
|                                     | 62 | _   |                                | 62            |

| <del></del>                |        |
|----------------------------|--------|
| Application at Cal U for   |        |
| Technology Ed              | C      |
|                            | Т      |
| use for TED 105            | 3      |
| Technical Elective         | 4      |
| use for First Year Seminar | 1      |
| use for Commm Skills       | 3      |
| use for Math               | 4      |
|                            |        |
|                            |        |
| Technical Elective         | 3      |
|                            |        |
| sub for ENG 102            | 3      |
| use for Major requirement  | 4      |
| Free Elective              | 3      |
|                            |        |
|                            |        |
|                            |        |
|                            |        |
|                            |        |
| use for Natural Science    | 3      |
|                            |        |
|                            |        |
|                            |        |
| echnical Elective          | 3      |
| se for Lit requirement     | 3 3    |
| se for Soc Sci             | 3      |
|                            | $\neg$ |
|                            |        |
|                            |        |

|           | Manufacturing Technology            |        | 31 | 7  | Cal U                           | T   |   |
|-----------|-------------------------------------|--------|----|----|---------------------------------|-----|---|
|           | Controls                            | $\top$ |    | 7  | Cal U Equivalent                | C   | 7 |
|           | First Semester                      | T      |    | 1  |                                 | 1   | ٦ |
|           | EET 103 Intro to Electronics        |        | 3  | 7  | ITE 130 Intro Circuit Analysis  | 1 3 | П |
|           | MAT 114 Math for the Techno 1       | 7      | 4  | 1  | MAT 181 College Algebra         | 4   |   |
| ı         | SET 105 Technical Computing         |        | 3  | 1  | TLC 164 Technology Elective     | 3   | ı |
| Į         | EGR 100 Engineering Seminar         | 1      |    | 1  | UNI 100 First Year Seminar      | 1   | _ |
| ĺ         | EDD 101 Engineering Drawing 1       | 3      | 3  | 11 | ITE 110 Technical Drawing I     | 3   |   |
|           | ENG 101 English Comp I              | 3      | П  | H  | ENG 101 English Comp I          | 3   |   |
| L         |                                     | T      | ٦  | П  |                                 | †   | 1 |
|           | Second Semester                     | Т      | ٦  | I  |                                 | T   | 1 |
|           | EDD 120 Intro to CAD                | 4      |    | ľ  | ITE 215 CAD I                   | 4   | 1 |
|           | MAT 116 Math for the Techno 2       | 4      | ٦  |    | MAT 191 College Trig            | 4   | 1 |
| l         | MET 112 Engineering Materials       | 4      | ٦  |    | PHS 135 Chem of Materials       | 4   | 1 |
|           | ENG 103 Technical Communic          | 3      | 1  | Ī  | ENG 217 Science & Tech Writing  | 3   | 1 |
| L         | AIT 107 Electronic Fabrication      | 3      | 7  |    | TLC 164 Technology Elective Lab | 3   | 1 |
| L         |                                     |        | 7  | Γ  |                                 | Ť   | 1 |
| _         | hird Semester                       |        | 7  | Γ  |                                 |     | 1 |
| Λ         | IET 200 Metrology                   | 3      | 7  | ħ  | TLC 162 Technology Elective     | 3   | 1 |
|           | IET 106 Geometrtic Dimen & Toler    | 1      | 7  |    | LC 162 Free Elective            | 1   | ĺ |
|           | HY 113 Technical Physics 1          | 3      | 7  | F  | PHY 121 General Physics I       | 3   |   |
| N         | IIT 103 Fund of Microprocessors     | 3      | 11 |    | LC 162 Free Elective            | 3   | ı |
| R         | BT 235 Programmable Logic Cont      | 4      | 11 | ľ  | TE 267 Program Control Systems  | 4   |   |
|           |                                     |        | 11 |    | ·                               |     | ļ |
|           | ourth Semester                      |        | 1  | Г  |                                 |     |   |
|           | ET 212 Manufact Processes           | 3      | Π  | T  | LC 162 Technology Elective      | 3   |   |
|           | BT 225 Robotic Controls             | 4      | П  | T  | LC 162 Technology Elective      | 4   |   |
|           | DD 135 Intro to Parametric Mod      | 3      | П  | T  | LC 162 Technology Elective      | 3   |   |
|           | ımanities - Literature              | 3      | I  | H  | LC 162 Humanities Elective      | 3   |   |
| <u>Sc</u> | ocial Science - PSY 101 Intro to Ps | 3      |    |    | SY 100 General Psychology       | 3   |   |
|           |                                     | 65     | _  |    |                                 | 65  |   |
|           |                                     |        |    |    | •                               |     |   |

| Application at Cal U for   | •  |         |
|----------------------------|----|---------|
| Technology Ed              |    | C       |
|                            |    |         |
| Technical Elective         |    | 3       |
| use for Math               |    | 4       |
| Technical Elective         |    | 3       |
| use for First Year Seminar |    | 1       |
| use for TED 105            |    | 3       |
| use for Comm Skills        |    | 3       |
|                            |    |         |
|                            | 1  |         |
| Technical Elective         | 1  | 4       |
| use for Major requirement  | 1  | 4       |
| use for Natural Science    | 1  | 4       |
| sub for Comp II            | ļ  | 3       |
|                            | ļ  |         |
|                            | ļ  |         |
| <del></del>                | Ļ  |         |
|                            | L  |         |
|                            | L  | _       |
| use for Natural Science    | L  | 3       |
| Free Elective              | L  | 3       |
| ·                          | L  | _       |
|                            | L  | _       |
|                            | L. | _       |
| L C. ITT OFF               | _  | _       |
| sub for ITE 250            | 4  | 븨       |
| 6 1 th th                  |    | $\perp$ |
| se for Lit requirement     | 3  |         |
| se for Soc Sci             | 3  |         |
|                            | 4  | 8       |

| Manufacturing Technology               | Cr | Cal U                          | Ĭ  |
|--|----|--------------------------------|----|
| Machining                              | T  | Cal U Equivalent               | Cr |
| First Semester                         | 1  |                                |    |
| EET 103 Intro to Electronics           | 3  | ITE 130 Intro Circuit Analysis | 3  |
| MAT 114 Math for the Techno 1          | 4  | MAT 181 College Algebra        | 4  |
| SET 105 Technical Computing            | 3  | CSC 120 Prob Solv/Prog Cons    | 3  |
| MFT 141 Intro to Machining             | 3  | ITE 165 Maching Processing I   | 3  |
| EGR 100 Engineering Seminar            | 1  | UNI 100 First Year Seminar     | 1  |
| ENG 101 English Comp I                 | 3  | ENG 101 English Comp I         | 3  |
|  |    |                                |    |
| Second Semester                        |    |                                |    |
| EDD 120 Intro to CAD                   | 4  | ITE 215 CAD I                  | 4  |
| MAT 116 Math for the Techno 2          | 4  | MAT 191 College Trig           | 4  |
| EDD 101 Engineering Drawing 1          | 3  | ITE 110 Technical Drawing I    | 3  |
| MFT 143 Intro to Lathe                 | 3  | TLC 162 Technical Elective     | 3  |
|  |    |                                |    |
| Third Semester                         |    |                                |    |
| MET 200 Metrology                      | 3  | TLC 162 Technology Elective    | 3  |
| MET 106 Geometrtic Dimen & Toler       | 1  | ELC 162 Free Elective          | 1  |
| PHY 113 Technical Physics 1            | 3  | PHY 121 General Physics I      | 3  |
| MFT 145 Intro to Milling               | 3  | TLC 162 Technology Elective    | 3  |
| MFT 147 Intro to Grinding              | 3  | TLC 162 Technology Elective    | 3  |
| Social Science - take PSY 101 Intro to | 3  | PSY 100 General Psychology     | 3  |
|  |    |                                |    |
| Fourth Semester                        |    |                                |    |
| MFT 149 Intro to CNC                   | 3  | ITE 236 Numerical Controls     | 3  |
| MET 112 Engineering Materials          | 4  | PHS 135 Chemical of Materials  | 4  |
| EDD 135 Intro to Parametric Mod        | 3  | TLC 162 Technology Elective    | 3  |
| Humanities - Literature course         | 3  | HLC Humanities Elective        | 3  |
| ENG 103 Technical Communications       | 3  | ENG 217 Sci and Tech Writing   | 3  |
|  | 63 |                                | 63 |

| [ A 1                      | <del></del>      |
|----------------------------|------------------|
| Application at Cal U for   | +                |
| Technology Ed              | C                |
| Taulatan Etail             | +                |
| Technical Elective         | 3                |
| use for Math               | 3<br>3<br>1<br>3 |
| Free Elective              | 3                |
| Technical Elective         | 3                |
| use for First Year Seminar | 1                |
| use for Comm Skills        | 3                |
|                            | Ц.               |
|                            |                  |
| use for TED 105            | 4                |
| use for Major requirement  | 4                |
| Technical Elective         | 3                |
|                            |                  |
|                            |                  |
|                            |                  |
|                            |                  |
|                            |                  |
| use for Natural Science    | 3                |
|                            |                  |
|                            |                  |
| use for Soc Sci            | 3                |
|                            |                  |
|                            |                  |
|                            |                  |
| use for Natural Science    | 4                |
|                            |                  |
| use for Lit requirement    | 3                |
| sub for ENG 102            | 3                |
|                            | 44               |

| Manufacturing Technology              | Cr  | Cal U                            |    | $\Box$ |
|---------------------------------------|-----|----------------------------------|----|--------|
| Nanofabrication                       |     | Cal U Equivalent                 | Cr | 1 [    |
| First Semester                        |     |                                  | T  | lГ     |
| EET 103 Intro to Electronics          | 3   | ITE 130 Intro Circuit Analysis   | 3  | Те     |
| EGR 100 Engineering Seminar           | 1   | UNI 100 First Year Seminar       | 1  | us     |
| ENG 101 English Comp I                | 3   | ENG 101 English Comp I           | 3  | us     |
| MAT 114 Math for the Techno 1         | 4   | MAT 181 College Algebra          | 4  | us     |
| SET 105 Technical Computing           | 3   | CSC 120 Prob Solv/Prog Cons      | 3  | Fre    |
| Second Semester                       | +   |                                  | +  | -      |
| CHM 109 Intro to Chemistry            | 4   | CHE 100 Intro to Chemistry       | 4  |        |
| ENG 103 Technical Commun              | 3   | ENG 217 Science & Tech Writing   | 3  | Su     |
| MAT 116 Math for the Techno 2         | 4   | MAT 191 College Trig             | 4  | use    |
| MIT 107 Electronic Fabrication        | 3   | TLC 164 Technology Elective      | 3  |        |
| PHY 113 Technical Physics 1           | 3   | PHY 121 General Physics          | 3  | Na     |
| Third Semester                        |     |                                  | H  | -      |
| MET 106 Geometrtic Dimen & Toler      | 1   | ELC 162 Free Elective            | 1  |        |
| MET 112 Engineering Materials         | 4   | PHS 135 Chem of Materials        | 4  | Na     |
| MET 200 Metrology                     | 3   | TLC 162 Technology Elective      | 3  |        |
| PHY 114 Technical Physics 2           | 3   | PHY 121 General Physics II       | 3  |        |
| Social Science - take PSY 101 Intro 1 | 3   | PSY 100 General Psychology       | 3  | use    |
| Fourth Semester                       |     |                                  | H  | -      |
| MFT 211 Material Safety & Equip       | 3   | NMT 311Mat, Safety & Equip in NM | 3  |        |
| MFT 212 Basic Nanofabric Proc         | 3 . | NMT 312 Basic NMT Process        | 3  |        |
| MFT 213 Thin Films in Nanofabric      | 3   | NMT 313 Thin Films in NMT        | 3  |        |
| MFT 214 Lithography for Nanofabric    | 3   | NMT 314 Adv Lith & Dielectrics   | 3  |        |
| MFT 215 Material Modification         | 3   | NMT 315 Materials Modific in NMT | 3  |        |
| MFT 216 Characterization & Packag     | 3   | NMT 316 Charac Packg Test NMT    | 3  |        |
|                                       | 63  |                                  | 63 | -      |

| Application at Cal U for   | Π                |
|----------------------------|------------------|
| Technology Ed              | C                |
|                            | Π                |
| Technical Elective         | 3                |
| use for First Year Seminar | 1<br>3<br>4<br>3 |
| use for Comm Skills        | 3                |
| use for Math               | 4                |
| Free Elective              | 3                |
|                            |                  |
|                            |                  |
| ·                          |                  |
| Sub ENG 217 for Comp 2     | 3                |
| use for Major requirement  | 4                |
|                            |                  |
| Natural Science            | 3                |
|                            |                  |
|                            | <u> </u>         |
|                            |                  |
| Natural Science            | 4                |
|                            |                  |
|                            |                  |
| use for Soc Sci            | 3                |
|                            |                  |
| •                          |                  |
|                            |                  |
|                            |                  |
|                            |                  |
|                            | -                |
|                            | $\dashv$         |
|                            | <br>31           |
|                            | JI               |

| Manufacturing Technology             | C  | C                  | al U          |
|--------------------------------------|----|--------------------|---------------|
| Welding                              |    | Cal U E            | quivalent     |
| First Semester                       |    |                    |               |
| EET 103 Intro to Electronics         | 3  | ITE 130 Intro Circ | cuit Analysis |
| MAT 114 Math for the Techno 1        | 4  | MAT 181 College    | Aigebra       |
| SET 105 Technical Computing          | 3  | CSC 120 Prob Sc    |               |
| EGR 100 Engineering Seminar          | 1  | UNI 100 First Yea  |               |
| WLD 101 Welding Fundamentals         | 3  | Free Elective      |               |
| ENG 101 English Comp I               | 3  | ENG 101 English    | Comp I        |
|                                      |    |                    |               |
| Second Semester                      | T  |                    |               |
| EDD 120 Intro to CAD                 | 4  | ITE 215 CAD I      |               |
| MAT 116 Math for the Techno 2        | 4  | MAT 191 College    | Trig          |
| EDD 101 Engineering Drawing 1        | 3  | ITE 110 Technical  | Drawing I     |
| WLD 102 Advanced Welding             | 3  | ELC 162 Free Ele   |               |
|                                      |    |                    |               |
| Third Semester                       |    |                    | •             |
| MET 200 Metrology                    | 3  | TLC 162 Technolo   | gy Elective   |
| MET 106 Geometrtic Dimen & Toler     | 1  | ELC 162 Free Elec  |               |
| PHY 113 Technical Physics 1          | 3  | PHY 121 General    | Physics I     |
| MET 112 Engineering Materials        | 4  | PHS 135 Chem of    |               |
| WLD 201 Prep for Welding Cert        | 3  | LC 162 Free Elec   |               |
| Social Science - Intro to Psychology | 3  | PSY 100 General F  | Sychology     |
|                                      |    |                    |               |
| Fourth Semester                      |    |                    |               |
| WLD 202 MIG & TIG                    | 3  | LC 162 Free Elec   | tive          |
| MIT 212 Engineering Materials        | 4  | LC 162 Technolog   | y Elective    |
| EDD 135 intro to Parametric Mod      | 3  | LC 162 Technolog   | y Elective    |
| Humanities - Literature              | 3  | ILC 162 Humanitie  | s Elective    |
| ENG 103 Technical Communications     | 3  | NG 217 Sci & Tec   |               |
|                                      | 64 |                    |               |

|   | Application at Cal U for   |              |
|---|----------------------------|--------------|
| r | Technology Ed              | C            |
|   |                            |              |
| 4 | Technical Elective         | 3            |
| 4 | use for Math               | 4            |
| 4 |                            |              |
| ┦ | use for First Year Seminar | 1            |
| 4 | Free Elective              | 3            |
| 4 | use for Comm Skills        | 3            |
| 4 |                            | <del> </del> |
| 1 |                            | <del> </del> |
| 1 | use for TED 105            | 4            |
| ļ | use for Major requirement  | 14           |
| Į | Technical Elective         | 3            |
| l |                            | ļ            |
|   |                            | ├-           |
|   | Technical Elective         | 3            |
|   |                            |              |
|   | use for Natural Science    | 3            |
|   | use for Natural Science    | 4            |
| • |                            |              |
|   | use for Soc Sci            | 3            |
|   |                            |              |
|   |                            |              |
|   |                            | _            |
|   |                            |              |
|   |                            | ᆜ            |
|   | use for Lit requirement    | 3            |
| - | sub for Eng Comp II        | 3            |
|   |                            | 44           |

Cr

| CCAC                                |    |    |                                  |    |
|-------------------------------------|----|----|----------------------------------|----|
| Mechanical Drafting                 | С  | ſ  | Cal U                            | T  |
| and Design Technology               |    |    | Cal U Equivalent                 | Ci |
| First Semester                      |    |    |                                  | 1  |
| EDD 101 Engineering Drawing I       | 3  | П  | ITE 110 Technical Drawing 1      | 3  |
| EDD 120 introduction to CAD         | 4  | П  | ITE 215 CAD 1                    | 4  |
| EGR 100 Engineering Seminar         | 1  | ٦  | UNI 100 First Year Seminar       | 1  |
| MAT 114 Math for Technologies 1     | 4  | ٦  | MAT 181 College Algebra          | 4  |
| SET 105 Technical Computing         | 3  | ٦  | CSC 120 Prob Solv/Prg Const      | 3  |
| PHY 113 Technical Physics 1         | 3  | 7  | PHY 121 General Physics I        | 3  |
|                                     | 1  | 7  |                                  | 1  |
| Second Semester                     | 7  | ٦, |                                  |    |
| EDD 102 Engineering Drawing 2       | 3  | 7  | ITE 210 Technical Drawing 2      | 3  |
| EDD 121 CAD Applications            | 4  | 7  | ITE 162 Industrial Tech Elective | 4  |
| EDD 135 Intro to Parametric Modi    | 3  |    | TLC 162 Technical Elective       | 3  |
| MAT 116 Math for Technologies 2     | 4  |    | MAT 191 College Trig             | 4. |
| MET 112 Engineering Materials       | 4  |    | PHS 135 Chemisty of Materials    | 4  |
| ·                                   |    | 71 |                                  |    |
| Third Semester                      |    | 11 |                                  | 1  |
| EDD 240 Mechanical Drafting         | 4  | 11 | ITE 162 Industrial Tech Elective | 4  |
| ENG 101 English Comp 1              | 3  |    | ENG 101 English Comp 1           | 3  |
| MET 106 Geometric Dimens/Toler      | 1  | П  | ELC 162 Free Elective            | 1  |
| MET 150 Statics                     | 4  | Ħ  | TLC 162 Statics & Strength       | 4  |
| Social Science - take PSY 101 Intro | 3  |    | PSY 100 General Psychology       | 3  |
|                                     |    | lΓ |                                  |    |
| ourth Semester                      |    | П  |                                  |    |
| EDD 245 Adv Engineering Draw        | 4  | 1  | TLC 162 Technical Elective       | 4  |
| NG 103 Technical Communications     | 3  | E  | NG 217 Science & Tech Writing    | 3  |
| MET 211 Strength of Materials       | 4  |    | TE 325 Statics & Strengths       | 4  |
| PHY 114 Technical Physics 2         | 3  |    | echnical Elective                | 3  |
| lumanties - Literature              | 3  | F  | ILC 162 Humanities Elective      | 3  |
|                                     | 68 | _  |                                  |    |

| Application at Cal U for              |     |
|---------------------------------------|-----|
| Technology Ed                         | C   |
|                                       |     |
| use for TED 105                       | 3   |
| Technical Elective                    | 4   |
| use for First Year Seminar            | ] 1 |
| use for Math                          | 4   |
| Free Elective                         | 3   |
| use for Natural Science               | 3   |
|                                       |     |
|                                       |     |
|                                       |     |
|                                       |     |
|                                       |     |
| use for Major requirement             | 4   |
| use for Natural Science               | 4   |
|                                       |     |
|                                       |     |
| · · · · · · · · · · · · · · · · · · · |     |
| use for Comm Skills                   | 3   |
| · · · · · · · · · · · · · · · · · · · |     |
| Technical Elective                    | 4   |
| use for Soc Sci                       | 3   |
|                                       |     |
| ·                                     |     |
|                                       |     |
| ub for Comp II                        | 3   |
| echnical Elective                     | 4   |
|                                       |     |
| iterature requirement                 | 3   |
|                                       | AC  |

| Microcomputer Electronics             | C  | 7    | Cal U                             |    |
|---------------------------------------|----|------|-----------------------------------|----|
| Technology                            | T  | 7    | Cal U Equivalent                  | Cr |
| First Semester                        |    |      |                                   | Π. |
| EET 103 Intro to Electronics          | 3  |      | ITE 130 Intro Circuit Analysis    | 3  |
| EGR 100 Engineering Seminar           | 1  | 7    | UNI 100 First Year Seminar        | 1  |
| ENG 101 English Comp I                | 3  | ٦    | ENG 101 English Comp I            | 3  |
| MAT 114 Math for the Techno 1         | 4  | ]    | MAT 181 College Algebra           | 4  |
| PHY 113 Technical Physics 1           | 3  | ]    | PHY 121 General Physics 1         | 3  |
| SET 105 Technical Computing           | 3  | ]    | CSC 120 Probl Solv/Prog Const     | 3  |
|                                       |    | ]    |                                   |    |
| Second Semester                       |    | ]    |                                   |    |
| MAT 116 Math for the Techno 2         | 4  | ]    | MAT 191 College Trig              | 4  |
| MIT 103 Fundamentals of Microproc     |    | ]    | EET 270 Intro Microprocess Design | 3  |
| MIT 110 Electrical Engineering Circu  | 4  | ]    | EET 110 DC Circuits               | 4  |
| MIT 208 Digital Electronics           | 3  | ]    | EET 170 Digital Electr Des        | 3  |
| PHY 114 Technical Physics 2           | 3  |      | PHY 122 General Physics 2         | 3  |
|                                       |    | ]    |                                   |    |
| Third Semester                        |    | ]    |                                   |    |
| EET 201 Electronics 1                 | 4  | $\ $ | EET 210 Linear Electronics I      | 4  |
| MIT 201 Microcomuter Technology 1     | 4  | Ш    | CSC 162 Computer Transfer Cours   | 4  |
| MIT 210 Electrical Engineering Circu  | 4  | l    | EET 160 AC Circuits               | 4  |
| Social Science - take PSY 101 Intro ( | 3  | I    | PSY 100 General Psychology        | 3  |
|                                       |    |      |                                   |    |
| Fourth Semester                       |    |      |                                   |    |
| ENG 106 Report Writing                | 3  |      | ENG 162 English Elective          | 3  |
| MIT 202 Microcomputer Tech 2          | 4  |      | TLC 162 Technology Elective       | 4  |
| Technical Elective                    | 3  | ſ    | Technical Elective                | 3  |
| Technical Elective                    | 3  | ſ    | Technical Elective                | 3  |
| lumanities - Literature               | 3  |      | HLC 162 Humanities Elective       | 3  |
|                                       | 65 | _    | •                                 | 65 |

| Application at Cal U for   |                  |
|----------------------------|------------------|
| Technology Ed              | C                |
|                            |                  |
|                            | T                |
| use for First Year Seminar | 1                |
| use for Comm Skills        | 3                |
| use for Math               | 3<br>4<br>3<br>3 |
| Natural Science            | 3                |
| Free Elective              | 3                |
|                            | T                |
|                            |                  |
| use for Major requirement  | 4                |
|                            | 1                |
|                            |                  |
|                            |                  |
| use for Natural Science    | 3                |
|                            |                  |
|                            |                  |
|                            |                  |
|                            |                  |
|                            |                  |
| use for Soc Sci            | 3                |
|                            | Ť                |
|                            |                  |
| sub for Comp II            | 3                |
|                            |                  |
| Technical Elective         | 3                |
| Technical Elective         | 3                |
| use for Lit requirement    | 3                |
| and to dame to the         | 36               |

| Robotics and Automated                     | C  | 7  | Cal U                           | T  |
|--|----|----|---------------------------------|----|
| Systems Technology                         |    | ٦  | Cal U Equivalent                | Cr |
| First Semester                             | T  | ٦  |                                 | 7  |
| <b>EET 103 Introduction to Electronics</b> | 3  | 7  | ITE 130 Intro Circuit Analysis  | 3  |
| EGR 100 Engineering Seminar                | 1  | 7  | UNI 100 First Year Seminar      | 1  |
| ENG 101 English Composition 1              | 3  | 7  | ENG 101 English Comp I          | 3  |
| MAT 114 Mathematics for Techn 1            | 4  | 7  | MAT 181 College Algebra         | 4  |
| PHY 113 Technical Physics 1                | 3  | 7  | PHY 121 General Physics I       | 3  |
| SET 105 Technical Computing                | 3  | 1  | CSC 120 Prob Solv/Prog Cons     | 3  |
|  |    | 1  |                                 |    |
| Second Semester                            |    | 1  |                                 |    |
| MAT 116 Mathematics for Techn 2            | 4  | 11 | MAT 191 College Trig            | 4  |
| MET 112 Engineering Materials              | 4  | 11 | PHS 135 Chem of Materials       | 4  |
| MIT 208 Digital Electronics                | 3  | 11 | EET 170 Digital Electr Design   | 3  |
| PHY 114 Technical Physics 2                | 3  | 11 | PHY 122 General Physics II      | 3  |
| RBT 225 Robotics Control Systems           | 4  |    | TLC 162 Technology Elective     | 4  |
|  |    | 11 |                                 |    |
| Third Semester                             |    | П  |                                 | П  |
| MET 170 Fluid Power Systems                | 4  | ľ  | TLC 162 Technology Elective     | 4  |
| MIT 103 Fundamentals of Microproc          | 3  |    | EET 270 Intro Microprocess Des  | 3  |
| RBT 235 Programmable Logic Contr           | 4  | Ī  | ITE 267 Prog Control Systems    | 4  |
| Technical Elective                         | 3  |    | Technical Elective              | 3  |
| Social Science - take PSY 101 Intro 1      | 3  | Ī  | PSY 100 General Psychology      | 3  |
|  |    | Γ  |                                 |    |
| Fourth Semester                            |    | I  |                                 | П  |
| ENG 106 Report Writing                     | 3  | E  | ENG 162 English Transfer Course | 3  |
| RBT 230 Automated Equipment                | 3  | 1  | TLC 162 Technology Elective     | 3  |
| Humanities - Literature                    | 3  | F  | ILC 162 Humanities Elective     | 3  |
| Technical Elective                         | 3  |    | echnology Elective              | 3  |
| Technical Elective                         | 3  | ī  | echnology Elective              | 3  |
|  | 67 | _  |                                 | 67 |

| Technology Ed  Technical Elective use for First Year Seminar use for Comm Skills use for Math use for Natural Science Free Elective  Use for Major requirement  Use for Natural Science 4  Technical Elective  4  Technical Elective  4  |                            |          |
|--|----------------------------|----------|
| Technical Elective use for First Year Seminar use for Comm Skills use for Math use for Natural Science Free Elective  use for Major requirement  use for Natural Science Technical Elective  4  Technical Elective  4  Use for Soc Sci 3   | Application at Cal U for   |          |
| use for First Year Seminar use for Comm Skills use for Math use for Natural Science Free Elective  use for Major requirement  use for Natural Science Technical Elective  4  Technical Elective  4  Use for Soc Sci 3  | Technology Ed              | C        |
| use for First Year Seminar use for Comm Skills use for Math use for Natural Science Free Elective  use for Major requirement  use for Natural Science Technical Elective  4  Technical Elective  4  Use for Soc Sci 3  |                            |          |
| use for Comm Skills use for Math use for Natural Science Free Elective  use for Major requirement  use for Natural Science Technical Elective  4  Technical Elective  4  Use for Soc Sci 3   | Technical Elective         | 3        |
| use for Major requirement  use for Major requirement  use for Natural Science  Technical Elective  4  Technical Elective  4  use for Soc Sci  3  | use for First Year Seminar | 1        |
| use for Major requirement  use for Major requirement  use for Natural Science  Technical Elective  4  Technical Elective  4  use for Soc Sci  3  | use for Comm Skills        | 3        |
| use for Major requirement  use for Major requirement  use for Natural Science  Technical Elective  4  Technical Elective  4  use for Soc Sci  3  | ise for Math               | 4        |
| use for Major requirement  use for Major requirement  use for Natural Science  Technical Elective  4  Technical Elective  4  use for Soc Sci  3  | se for Natural Science     | 3        |
| use for Natural Science 3 Technical Elective 4 Technical Elective 4  use for Soc Sci 3   | ree Elective               | 3        |
| use for Natural Science 3 Technical Elective 4 Technical Elective 4  use for Soc Sci 3   |                            |          |
| use for Natural Science 3 Technical Elective 4 Technical Elective 4  use for Soc Sci 3   |                            |          |
| Technical Elective 4  Technical Elective 4  use for Soc Sci 3  | se for Major requirement   | 4        |
| Technical Elective 4  Technical Elective 4  use for Soc Sci 3  |                            |          |
| Technical Elective 4  Technical Elective 4  use for Soc Sci 3  |                            |          |
| Technical Elective 4 use for Soc Sci 3   |                            |          |
| use for Soc Sci 3  | echnical Elective 4        | Ł        |
| use for Soc Sci 3  |                            |          |
| use for Soc Sci 3  |                            |          |
|  | echnical Elective 4        |          |
|  |                            | _        |
|  |                            | _        |
|  |                            | 4        |
|  | ie for Soc Sci 3           | 4        |
|  |                            | 4        |
| when the comment of t | h Foolish Come 0           | 4        |
| sub English Comp 2 3   | D English Comp 2 3         | ┥        |
| use for Lit requirement 3  | e for Lit requirement 2    | $\dashv$ |
| ige to Firtedatiette 2   | e toi rit tedantement 3    | ┥        |
|  |                            | $\dashv$ |
| 41   | Δ1                         | J        |

| OOAG                                 |        |
|--------------------------------------|--------|
| Science and Engineering              | Cr     |
| Technology                           |        |
| First Semester                       |        |
| CHM 109 Intro to Chemistry           | 4      |
| EGR 100 Engineering Seminar          | 1      |
| ENG 101 English Comp I               | 3      |
| MAT 114 Math for the Techn 1         | 4      |
| SET 105 Technical Computing          | 3      |
|                                      |        |
| Second Semester                      |        |
| EDD 101 Engeering Drawing 1          | 3      |
| EET 103 Intro to Electronics         | 3      |
| MAT 116 Mathem for Techn 2           | 4      |
| ENG 102 English Composition 2        | 3      |
| OR ENG 106 Report Writing            | T      |
| Humanities                           | 3      |
|                                      | $\top$ |
| Third Semester                       |        |
| EDD 120 Intro to CAD                 | 4      |
| MET 112 Engineering Materials        | 4      |
| MIT 208 Digital Electronics          | 3      |
| PHY 113 Technical Physics 1          | 3      |
| Soc Sci: PSY 101 Int to Psych        | 3      |
|                                      |        |
| Fourth Semester                      |        |
| MAT 241 Technical Calculus 1         | 3      |
| MIT 240 Scientific & Indust Instrume | 3      |
| PHY 114 Technical Physics 2          | 3 3    |
| SET 110 Project Fabrication          | 3      |
| Technical Elective                   | 3      |
|                                      | ~~     |

| Cal U                          |          |
|--------------------------------|----------|
| Cal U Equivalent               | C        |
|                                | Τ        |
| CHE 100 Intro to Chemistry     | 4        |
| UNI First Year Seminar         | 1        |
| ENG 101 English Comp I         | 3        |
| MAT 181 College Algebra        | 4        |
| CSC 120 Prob Slv/Prog Constr   | 3        |
|                                |          |
|                                | <u> </u> |
| ITE 110 Technical Drawing i    | 3        |
| ITE 130 Intro Circuit Analysis | 3        |
| MAT 191 College Trig           | 4        |
| ENG 102 English Composition 2  | 3        |
| OR ENG 162 English Elective    |          |
| HLC 162 Humanities Elective    | 3        |
|                                |          |
| ·                              |          |
| ITE 215 CAD I                  | 4        |
| TED 226 Applic & Process Mater | 4        |
| EET 235 Digital Electr Design  | 3        |
| PHY 121 General Physics        | 3        |
| PSY 100 General Psychology     | 3        |
| ·                              |          |
|                                |          |
| MAT 281 Calculus I             | 3        |
| EET 325 Intro Electric Power   | 3        |
| PHY 122 General Physics 2      | 3        |
| TLC 162 Technical Elective     | 3        |
| Technical Elective             | 3        |
|                                | 63       |

| Application at Cal U for   |     |
|----------------------------|-----|
| Technology Ed              | C   |
|                            |     |
| use for Natural Science    | 4   |
| use for First Year Seminar | 1   |
| use for Comm Skills        | 3   |
| use for Math               |     |
| Free Elective              | 3   |
|                            |     |
|                            |     |
| use for TED 105            | 3   |
| Technical Elective         | 3   |
| use for Major requirement  | 4   |
| use for Comm Skills        | 3   |
| sub for ENG 102            |     |
| use for Humanities         | 3   |
|                            |     |
|                            |     |
| Technical Elective         | 4   |
| use for TED 226            | 4   |
|                            |     |
| use for Natural Science    | 3   |
| use for Soc Sci            | 3   |
|                            |     |
|                            | _   |
|                            |     |
|                            | _   |
| Talkatal Flact             | ᅱ   |
| Technical Elective         | 3   |
|                            | - 1 |

ATTACHMENT B

Arch Draft & Design to Technology Education - Bachelor of Science in Education (120 credits)

| ame:  | _                |  |   |
|---|------------------|--|---|
| ame:  |                  | ntry:  | ID:                                     |
| ćmail:  | Pho              | one:   |   |
|   |                  |  | <del></del>                             |
| GENERAL EDUCATION (50-51 Credits)                     | : Crs Grad       | e MAJOR (39 Credits)   | Crs Grade                               |
| Building a Sense of Community - 1 credit              |                  | Required Courses:  | CIS Grade                               |
| EGR 100 Engineering Seminar                           | 1 CCA            |  | 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
|   |                  | MAT 116 Math for Technologies 2  | 3 Cal U<br>4 CCAC                       |
| Critical Thinking Skills - 3 credits                  |                  | EDD 101 Engineering Drawing 1  |   |
| TED 426 Manufacturing Enterprise*                     | 3 Call           |  | 3 CCAC                                  |
|   |                  | TED 126 Engineering Materials & Product Design   | 3 Cal U                                 |
| Communication Skills - 6 credits                      |                  | TED 226 Apps.& Processing of Engineering Materia   | 3 Cal U                                 |
| ENG 101 Composition I *                               | 3 CCAC           | The state of the s | - 11 CO COM - 15 CO CO                  |
| ENG 103 Technical Communications                      | 3 CCAC           |  | 3 Cal U                                 |
|   |                  | TED 346 Digital Communications   | 3 Cal U                                 |
| Public Speaking - 3 credits                           |                  | TED 436 Engineering Design & Development   | 3 Cal U                                 |
|   | 3 Cal U          | Lingingering Design & Development  | 3 Cal U                                 |
|   |                  | Technical/Technological Electives - 9 credits  |   |
| Mathematics - 3 credits                               |                  | EDD 120 Intro to CAD   |   |
| MAT 114 Math for Technologies 1                       | 4 CCAC           | EDD 121 CAD Applications   | 4 CCAC                                  |
|   |                  | MET 211 Strength of Materials  | 4 CCAC                                  |
| Natural Sciences - 7-8 credits**                      |                  | MET 211 Orenigin of Materials  | 4 CCAC                                  |
| PHY 113 Tech Physics 1                                | 3 CCAC           | ELECTIVE (3 Credits)   |   |
| SCIENCE   | 3-4 Cal U        | EDD 102 Engineering Drawing 2  |   |
|   |                  | Engineering Drawing 2  | 3 CCAC                                  |
| Social Sciences - 6 credits                           |                  | Amproved Toological/Table 1  |   |
| PSY 101 Intro to Psychology                           | 3 CCAC           | Approved Technical/Technological Electives:  | •                                       |
| PSY 208 Educational Psychology*                       | 3 CalU           | COM 141, 142, 241, 242, THE 141, CSC 120 or above  |   |
|   |                  | Any CET, EET, GCT, GET, ITE, MMT or TED course not   | already required by                     |
| 년이 마 <u>nities</u> - 3 credits                        |                  | the major, or any other courses approved by the advisor  |   |
| Humanities - Literature                               | 3 CCAC           | *Doguired courses that would be  |   |
|   | _ <u> </u>       | *Required courses that must be completed.  |   |
| Fine Arts - 3 credits                                 |                  | sthictural Colomos Complete  |   |
|   | 3 Cal U          | **Natural Science: Complete one 4-credit LAB and one L   | AB or SCIENCE.                          |
|   | _ J Car U        | LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121  |   |
| Multicultural Awareness - 3 credits                   | •                | SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137   | ,                                       |
| EDU 310 Teaching in a Multicultural Society *         | 3 Calu           | The state of the s |   |
|   | _ J <u>Car U</u> | Admission to Teacher Education - must be approved at   | 48 - 65 credits                         |
| /alues - 3 credits                                    |                  | 2.80 GPA overall   |   |
| TED 210 Design & Appropriate Technology *             | 3 Calu           | C or better grades in 6 credits of math  |   |
|   | _ S Car U        | C or better grades in 6 credits of composition/English liteat  | ure                                     |
| echnological Literacy - 6 credits                     |                  | C or better grade in TED 100   | •                                       |
| TED 302 Energy & Control Systems *                    | 3 Cal U          | Speech and hearing test  |   |
| TED 316 Structural Design *                           | 3 Cal U          | Document Act 34, Act 114 and Act 151 clearances  |   |
|   | _ J Car U        | Pass Praxis exams in Reading, Writing, Math  |   |
| lealth & Wellness - 3 credits                         |                  |  |   |
| HPE 314 First Aid & Personal Safety *                 | 3 Call           | Recommendation for Student Teaching - required 1 sem   | ester prior                             |
|   | _ 3 <u>Callu</u> | Due Jun. 1 for Fall, Nov. 1 for Spring   |   |
| <u>/riting Component Courses</u> - 2 courses          | •                | 3.00 GPA overall (at time of application & start of student te   | aching)                                 |
| ED 450 and TED 451 listed below in the Professional P | roporation       | C or better grade in each TED course   |   |
| ock are designated Upper-Division Writing Component   | Courses          | TB test  |   |
|   | Courses.         | Pass Praxis II TED exam and Fundamental Subjects exam  | İ                                       |
| ROFESSIONAL PREPARATION (28 Credits)                  |                  | Current Act 34, 114 & 151 clearances, valid thru student tea   | aching                                  |
| EDU 340 Mainstreaming Exceptional Learners            | 2 762046         | \$1 million liability insurance policy   | -                                       |
| TED 100 Introduction to Technology Education          | 3 Cal U          |  | •                                       |
| TED 300 Assessment & Instruction in TED               | 3 Cal U          | EXTRA COURSES  |   |
| TED 450 Teach Technology in Secondary Sch             | 3 Cal U          | ELC 162 Free Electives   | 21 CCAC                                 |
| TED 451 Teach Technology in Elementary Sch            | 3 Cal U          |  |   |
| TEC 191 Technology Education Student Teach            | 3 Cal U          |  |   |
| Fe Professional Practices in TED                      | 10 Cal U         |  |   |
|   | 3 Cal II         |  |   |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

| FRESH  | MAN    | Semester 1                         |     |
|--------|--------|------------------------------------|-----|
| Prefix | Number | Course                             | Cr. |
| ENG    | 101    | English Composition I              | 3   |
| MAT    | 181    | College Algebra                    | 3   |
| TED    | 105    | Communicating Technical Designs    | 3   |
| TED    | 100    | intro to Technology Education      | 3   |
| TED    | 126    | Engineer. Materials & Prod. Design | 3   |
| UNI    | 100    | First Year Seminar                 | 1   |
|        | . 1    | Total                              | 16  |

| Prefix | Number | Course                          | Cr. |
|--------|--------|---------------------------------|-----|
| ENG    | 102    | English Composition II          | 3   |
| MAT    | 191    | College Trigonometry            | 3   |
| TED    | 111    | Information Systems             | 3   |
| TED    | 226    | Apps. & Process Engineer. Mats. | 3   |
| TED    | 210    | Design & Appropriate Technology | 3   |
|        |        |                                 |     |
|        |        | Total                           | 15  |

| SOPHOMORE |        | Semester 3*         |     |
|-----------|--------|---------------------|-----|
| Prefix    | Number | Course              | Cr. |
| ITE       | 250    | Intro to Automation | 3   |
| PSY       | 100    | General Psychology  | 3   |
|           |        | General Education   | 9   |
| ľ         |        | ٠.                  |     |
|           |        |                     |     |
|           |        |                     |     |
|           |        | Total               | 15  |

| Semester 4**  Prefix Number Course Cr |     |   |             |  |  |  |
|---------------------------------------|-----|---|-------------|--|--|--|
| Prefix                                |     |   | Cr.         |  |  |  |
| PSY<br>TED                            | 208 | Teaching In Multicultural Society<br>Educational Psychology<br>Assessment & Instruction in TED<br>General Education | 3<br>3<br>7 |  |  |  |
| <u>-</u> I                            |     | Total   | 16          |  |  |  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| _ | JUNIOR                   |                          | Semester 5   |                  |
|---|--------------------------|--------------------------|--|------------------|
|   | Prefix                   | Number                   |  | Cr.              |
| . | EDU<br>TED<br>TED<br>TED | 340<br>302<br>316<br>335 | Mainstreaming Exceptional Learn<br>Energy & Control Systems<br>Structural Design<br>Transportation Systems<br>Technical/Technological Elective | 3<br>3<br>3<br>3 |
| _ |                          |                          | Total  | 15               |

|                   |        | Semester 6  |                  |
|-------------------|--------|---|------------------|
| Prefix            | Number |   | Cr.              |
| HPE<br>TED<br>TED | 304    | First Aid & Personal Safety Designs in Bio-Related Tech Digital Communications General Education Technical/Technological Elective | 3<br>3<br>3<br>3 |
|                   |        | Total   | 15               |

| SENIOR                   |        | Semester 7  |                       |
|--------------------------|--------|---|-----------------------|
| Prefix                   | Number | Course  | Cr.                   |
| TED<br>TED<br>TED<br>TED | 500    | Manufacturing Enterprise Engineering Design & Develop Teach. Tech-Secondary Sch Teach. Tech-Elementary Sch Technical/Technological Elective | 3<br>3<br>3<br>3<br>3 |
| •                        | ·      | Total   | 15                    |

| Semester 8 |            |  |     |  |  |  |
|------------|------------|--|-----|--|--|--|
| Prefix     | Number     | Course   | Cr. |  |  |  |
| TED<br>TED | 461<br>462 | Technology Education Stud Teach<br>Prof Practices in Tech Ed | 10  |  |  |  |
| <u></u>    |            | Total  | 13  |  |  |  |

Civil Engineering - Technology Education - Bachelor of Science in Education (120 credits)

| 1461116           | •   |                | EI              | ntry:                                   |  | ID:        |
|-------------------|---|----------------|-----------------|---|--|------------|
| Email             |   |                | Pho             | one:                                    | <del></del>  |            |
| CENED             | AL EDUCATION (50 54 Oct.)                                 |                | _ <del></del>   |   |  |            |
| Building          | AL EDUCATION (50-51 Cred<br>a Sense of Community - 1 cred | its):          | Crs Grad        |   | (39 Credits)   | Crs Grad   |
| FGR 100           | Engineering Seminar                                       | ait            | 4 554           | Required                                | Courses:   |            |
| <u> </u>          | Engineering Seminar                                       |                | 1 CCA           | ITE 250                                 | Introduction to Automation   | 3 Call     |
| Critical T        | hinking Skills - 3 credits                                |                |                 | MAT116                                  |  | 4 CCA      |
| TFD 426           | Manufacturing Enterprise*                                 |                | 0.00000         | EDD 101                                 |  | 3 CCA      |
|                   | Manufacturing Enterprise                                  |                | 3 Call          |   |  | 3 Call     |
| Commun            | ication Skills - 6 credits                                |                |                 | TED 126                                 | C S G  | 3 Call     |
| ENG 101           | Composition I *   |                | 2 0040          | TED 226                                 | the state of the s | ls 3 Call  |
|                   | Composition II *  |                | 3 CCAC          | -                                       | Designs in Bio-Related Technology  | 3 Call     |
|                   |   |                | 3 CCAC          | -                                       | Transportation Systems   | 3 Cal U    |
| Public Sp         | eaking - 3 credits  |                |                 | TED 346                                 |  | 3 Cal U    |
|                   |   |                | 3 Cal U         | TED 436                                 | Engineering Design & Development   | 3 Cal U    |
|                   |   |                | S CALU          |   | Panharata I Maria  |            |
| <u>Mathemat</u>   | ics - 3 credits   |                |                 | EGR 110                                 | <u>Fechnological Electives</u> - 9 credits   |            |
|                   | Math for the Technologies 1                               |                | 4 CCAC          |   | Engineering Surveying Intro to CAD   | 4 CCAC     |
|                   |   |                | + OUAU          | MET 211                                 |  | 4 CCAC     |
| Natural Sc        | iences - 7-8 credits**                                    |                |                 | MEIZII                                  | Strength of Materials  | 4 CCAC     |
| PHY 141           |   |                | 4 CCAC          | ELECTIV                                 | = /2 Cdi4-1  |            |
|                   | Physics 2   | <u> </u>       | CCAC            | CET 202                                 | E (3 Credits)  |            |
|                   |   |                | · COAC          | CE1 202                                 | Soils in Construction  | 4 CCAC     |
| Social Sci        | ences - 6 credits   |                | •               | A                                       |  |            |
| PSY 101           | Intro to Psychology *                                     |                |                 | Approved T                              | echnical/Technological Electives:  |            |
| PSY 208           | Educational Psychology*                                   |                | CCAC            | COM 141, 14                             | 42, 241, 242, THE 141, CSC 120 or above  |            |
|                   | - Cy undagy   | — '            | Calif           | Any CEI, EET                            | GCT, GET, ITE, MMT or TED course not already re  | equired by |
| <b>Humanities</b> | s 3 credits   |                |                 | me major, or                            | any other courses approved by the advisor  |            |
|                   | Any Humanites Elective                                    | 2              | CCAC            | *Possissed o                            |  |            |
|                   |   | _ `            | COAC            | vedaued c                               | ourses that must be completed.   |            |
| Fine Arts -       | · 3 credits   |                |                 | *************************************** | _  |            |
|                   |   | _              | e de la company | ""NETUrai Sciel                         | nce: Complete one 4-credit LAB and one LAB or SC   | IENCE.     |
|                   |   | _ <sup>3</sup> | Cal U           | LAB (4 Crs):                            | BIO 115, BIO 206, CHE 101, PHY 121   |            |
| Multicultur       | al Awareness - 3 credits                                  |                |                 | SCIENCE (3                              | crs) EAS 163, ENS 101, PHS 120, PHS 137  | 7          |
| EDU 310           | Teaching in a Multicultural Society *                     |                | on all the      | Name of Property of Land                | Action Action and action and action  |            |
|                   | - Color of the Intercentarian Gociety                     | _ °            | Cal U           | Admission to                            | eacher Education - must be approved at 48 - 65 cr  | redits     |
| Values - 3        | credits   |                |                 | 2.80 GPA ove                            |  |            |
|                   | Design & Appropriate Technology *                         | 2              | Cath            | C or better gra                         | ades in 6 credits of math  |            |
|                   | g.:   | °              | Cal U           | C or better gra                         | ades in 6 credits of composition/English liteat  | ture       |
| Technologi        | cal Literacy - 6 credits                                  |                |                 |   | ade in TED 100   |            |
| TED 302           | Energy & Control Systems *                                | 3.             | Cal U           | Speech and h                            | earing test  |            |
| TED 316           | Structural Design *                                       | — يَ           | Cal U           | Document Act                            | 34, Act 114 and Act 151 clearances   |            |
|                   |   | <b>-</b> '     | Call U          | Pass Praxis ex                          | xams in Reading, Writing, Math   |            |
| lealth & Wo       | ellness - 3 credits                                       |                | •               | ######################################  | a de de 2011 des propries la companya de  companya de la companya de la companya del companya de la companya del la companya del la companya de  la companya del la companya de la companya de la companya de la companya del la company |            |
| HPE 314           | First Aid & Personal Safety *                             | 3              | Cal U           | Neconimendani                           | on for Student Teaching - required 1 semester price  | ir         |
|                   |   | <b>-</b> "     | Calib           | Due Jun. 1 for                          | Fall, Nov. 1 for Spring  |            |
| Vriting Con       | ponent Courses - 2 courses                                |                |                 | 3.00 GPA over                           | rall (at time of application & start of student to   | eaching)   |
| ED 450 and TE     | D 451 listed below in the Professional Prepa              | eration        | •               |   | de in each TED course  |            |
| ock are design:   | ated Upper-Division Writing Component Cou                 | ireae          |                 | TB test                                 |  |            |
|                   |   | ٠.             | *               | Current A -4 34                         | TED exam and Fundamental Subjects exam   | 1          |
| ROFESSIO          | NAL PREPARATION (28 Credit                                | 6)             |                 | Current ACt 34                          | , 114 & 151 clearances, valid thru student tea   | aching     |
| EDU 340 N         | Mainstreaming Exceptional Learners                        |                | Cal U           | a i million liabil                      | ity insurance policy   |            |
| TED 100 II        | ntroduction to Technology Education                       |                | Cal U           | EVTDA AALI                              | 850  |            |
| TED 300 A         | assessment & Instruction in TED                           | -              |                 | EXTRA COUR                              |  |            |
|                   | each Technology in Secondary Sch                          | _              | Cal U           | ELC 162 F.                              | ree Electives  | 19 CCAC    |
|                   | each Technology in Elementary Sch                         | _              | Cal U           |   |  |            |
| TED 461 T         | echnology Education Student Teach                         | _              | Cal U           |   |  |            |
| TED 462 P         | rofessional Practices in TED                              |                | Cal U           |   | TED Be e   |            |
|                   |   |                |                 |   |  |            |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

| FRESH                                  |                          | Semester 1  |     |                                 |                          | Semester 2  |                              |
|--|--------------------------|---|-----|---------------------------------|--------------------------|---|------------------------------|
| Prefix                                 | Number                   |   | Cr. | Prefix                          | Number                   |   | T 0=                         |
| ENG<br>MAT<br>TED<br>TED<br>TED<br>UNI | 181<br>105<br>100<br>126 | English Composition I College Algebra Communicating Technical Designs Intro to Technology Education Engineer. Materials & Prod. Design First Year Seminar | 3   | ENG<br>MAT<br>TED<br>TED<br>TED | 102<br>191<br>111<br>226 | English Composition II College Trigonometry Information Systems Apps. & Process Engineer. Mats. Design & Appropriate Technology | Or.<br>3<br>3<br>3<br>3<br>3 |
|  |                          | Total   | 16  | <del></del>                     |                          | Total   | 15                           |

| SOPHOR               |     | Semester 3*   |       |                    |                             |                   | Semester 4**  |             |
|----------------------|-----|---|-------|--------------------|-----------------------------|-------------------|---|-------------|
| Prefix<br>ITE<br>PSY | 100 | Course Intro to Automation General Psychology General Education |       | Gr.<br>3<br>3<br>9 | Prefix<br>EDU<br>PSY<br>TED | 310<br>208<br>300 | Course Teaching In Multicultural Society Educational Psychology Assessment & Instruction in TED General Education | Cr. 3 3 3 7 |
|                      |     |   | Total | 15                 | <u> </u>                    |                   | Total   | 16          |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| JUNIOR                   | A6                       | Semester 5  | _                |                             |                             | Semester 6 |                       |
|--------------------------|--------------------------|---|------------------|-----------------------------|-----------------------------|------------|-----------------------|
| EDU<br>TED<br>TED<br>TED | 340<br>302<br>316<br>335 | Course Mainstreaming Exceptional Learn Energy & Control Systems Structural Design Transportation Systems Technical/Technological Elective | 3<br>3<br>3<br>3 | Prefix<br>HPE<br>TED<br>TED | Number<br>314<br>304<br>346 |            | 3<br>3<br>3<br>3<br>3 |
|                          |                          | Total   | 15               |                             |                             | Total      | 15                    |

| SENIOR                 |                          | Semester 7  |                         |                      |                      | Semester 8 |                       |
|------------------------|--------------------------|---|-------------------------|----------------------|----------------------|------------|-----------------------|
| Prefix TED TED TED TED | 426<br>436<br>450<br>500 | Course  Manufacturing Enterprise Engineering Design & Develop Teach. Tech-Secondary Sch Teach. Tech-Elementary Sch Technical/Technological Elective | Cr.<br>3<br>3<br>3<br>3 | Prefix<br>TED<br>TED | Number<br>461<br>462 |            | <b>Cr.</b><br>10<br>3 |
|                        |                          | Total   | 15                      | <u></u>              |                      | Total      | 13                    |

CADD to Technology Education - Bachelor of Science in Education (120 credits)

| Nam                                     | le:   |              |      | Entry:         |                                       |  | ID:      |          |       |
|---|---|--------------|------|----------------|---------------------------------------|--|----------|----------|-------|
| Ema                                     | il:   |              |      | hone:          |                                       | <del></del>  | الله     |          |       |
|   |   |              |      | •              |                                       |  |          |          |       |
| GENE                                    | RAL EDUCATION (50-51 Cred   | lits):       | Crs  | Grade          | MAJOR                                 | (39 Credits)   | C        | re       | Grade |
| <u> Pulluli</u>                         | <u>u a Sense of Community - 7 Cre</u>                                   | edit         |      |                | Required                              | Courses:   |          |          | 41646 |
| EGR 1                                   | 00 Engineering Seminar  |              | 1    | CCAC           |                                       |  | 4        | 3        | Cal U |
| Critical                                | Thinking Skills - 3 credits   |              |      |                | MAT 116                               |  | 4        | 4 -      | CCAC  |
| TED 42                                  |   | ٠            | _    | <b>6</b> -1-1  | EDD 101                               |  | 7        | 3 📱      | CCAC  |
| , LD 72                                 | Mandiaccini & Circibias   |              | 3    | Cal U          |                                       | Information Systems  |          | 3 _      | Cal U |
| Commu                                   | unication Skills - 6 credits  |              |      |                | TED 126<br>TED 226                    | Engineering Materials & Product Design   |          | 3 _      | Cal U |
| ENG 10                                  |   |              | 3    | CCAC           | TED 304                               |  |          | 3 _      | Cal U |
| ENG 10                                  |   |              | _    | CCAC           |                                       | Designs in Bio-Related Technology Transportation Systems   | 3        | _        | Cel U |
|   |   |              | •    | <del></del>    | TED 346                               | Digital Communications   | 3        | _        | Cal U |
| <u>Public S</u>                         | Speaking - 3 credits  |              |      |                | TED 436                               | Engineering Design & Development   | 3        | <b>`</b> | Cal U |
|   |   |              | 3    | Cal U          |                                       | - Succession Special of Developinies   | 3        | <i>'</i> | Cai U |
| 68 - 46                                 | -41 0 111   |              |      |                | Technical/T                           | echnological Electives - 9 credits   |          |          |       |
|   | atics - 3 credits   |              |      |                | EDD 120                               | intro to CAD   | 4        |          | CCAC  |
| MAT 11                                  | 4 Math for Technologies 1   |              | 4 _  | CCAC           | EDD 102                               | Engineering Drawing 2  | 3        |          | CCAC  |
| Aletural (                              | Salamana 7 8 anadikata  |              |      | _              | EDD 221                               | Parametric Modeling II   | з        | _        | CCAC  |
| PHY 113                                 | Sciences - 7-8 credits**  3 Technical Physics 1                         |              |      |                |                                       |  |          | _        |       |
|   | SCIENCE TOURISM   |              | 3_(  | CAC I          | ELECTIVI                              | E_ (3 Credits)   |          |          |       |
|   | COLLIOL   |              | -4-6 | Cal U          | SET 105                               | Technical Computing  | 3        | _        | CCAC  |
| Social Se                               | <u>ciences</u> - 6 credits  |              |      | _              |                                       |  |          |          |       |
| PSY 101                                 |   |              |      | #<br>^ ^ ^ ^   | ipproved Te                           | schnical/Technological Electives:  |          |          |       |
| PSY 208                                 | Educational Psychology*   | — ;          |      | CAC C          | /UN 141, 14<br>~/ CET EET             | 2, 241, 242, THE 141, CSC 120 or above   |          |          |       |
| . · · · · · · · · · · · · · · · · · · · |   | <u> </u>     | ´ -  |                | v the major '                         | GCT, GET, ITE, MMT or TED course not already<br>or any other courses approved by the advisor   | required |          | i     |
| <u>Humaniti</u>                         | ies - 3 credits   |              |      |                | y ore insign, t                       | or any orner contract approved by the soulton  |          |          |       |
|   | Humanities - Literature   | 3            | C    | CAC "I         | Required co                           | urses that must be completed.  |          |          |       |
|   |   |              | _    |                |                                       | and the state of t |          |          |       |
| Fine Arts                               | - 3 credits   |              |      | ****           | Natural Scien                         | ice: Complete one 4-credit LAB & one LAB or SCI  | ENCE     |          |       |
|   |   | 3            | C    | al U 🖳         | <u>AB</u> (4 cra): E                  | BIO 115, BIO 208, CHE 101, PHY 121   | L.14L.   |          |       |
| A 5                                     |   |              | _    | s              | CIENCE (3                             | Cre) EAS 163, ENS 101, PHS 120, PHS 137  | ,        |          |       |
|   | ural Awareness - 3 credits  |              |      |                |                                       |  |          |          |       |
| EDU 310                                 | Teaching in a Multicultural Society *                                   | 3            | C    | <u>al U</u> Ac | imission to T                         | eacher Education - must be approved at 48 - 65   | credits  |          |       |
| Volume -                                | 3 credits   |              |      | 2.8            | BO GPA over                           | all  | -        |          |       |
| TED 210                                 | Design & Appropriate Technology *                                       | _            | _    | C              | or better grad                        | des in 6 credits of math   |          |          |       |
|   | pesiting Appropriate recitiology -                                      | <sup>3</sup> |      | mu C           | or better grad                        | des in 6 credits of composition/English liteatu  | ire      |          |       |
| Technolo:                               | gical Literacy - 6 credits  | •            |      | C              | or better grad                        | de in TED 100  |          |          |       |
| TED 302                                 | Energy & Control Systems *  | 3            | C    | SP<br>-CILL    | sech and he                           | aring test   |          |          |       |
| TED 316                                 | Structural Design *   | — š          | C    |                | coment Act                            | 34, Act 114 and Act 151 clearances   |          |          |       |
|   |   | — <b>`</b>   |      |                | oo ridais ex                          | ams in Reading, Writing, Math  |          |          |       |
| <u>leaith &amp; V</u>                   | <u>Veliness</u> - 3 credits   |              |      | Res            | commendatio                           | on for Student Teaching - required 1 semester p  | rio-     |          |       |
| HPE 314                                 | First Aid & Personal Safety *   | 3            | Ca   | i U Du         | e Jun. 1 for i                        | Fall, Nov. 1 for Spring  | 1101     |          |       |
|   |   |              |      | 3.0            | GPA overall                           | (at time of application & start of student teaching)   |          |          |       |
| VIIIING CO                              | omponent Courses - 2 courses  |              |      | Co             | r better grad                         | e in each TED course   |          |          |       |
| EU 460 and 7                            | FED 451 listed below in the Professional Prep                           | eration      |      |                | test                                  |  |          |          |       |
| ock ste desi                            | gnated Upper-Division Writing Component Co                              | ursos.       |      | Pas            | se Praxis II T                        | ED exam and Fundamental Subjects exam  |          |          |       |
| ROFFee                                  | ONAL PREDADATION (OC. )   | a_ •         |      | Curi           | rent Act 34, 11                       | 14 & 151 clearances, valid thru student teaching   |          |          |       |
| EDU 340                                 | ONAL PREPARATION (28 Credit   | -            | _    | \$1 ı          | million liabilit                      | y insurance policy   |          |          |       |
| TED 100                                 | Mainstreaming Exceptional Learners Introduction to Technology Education | _            | Ca   |                | · · · · · · · · · · · · · · · · · · · |  |          |          |       |
|   | Assessment & Instruction in TED   |              |      |                | TRA COURS                             |  |          |          |       |
| TED 450                                 | Teach Technology in Secondary Sch                                       |              | _    | ELC            | : 162 F                               | ree Electives  | 22 C     | C        | AC    |
| TED 451                                 | Teach Technology in Elementary Sch                                      | _            | Cal  | _              |                                       |  |          |          |       |
| TED 461                                 | Technology Education Student Teach                                      |              | Cal  |                | , da.,                                | EN 86 60 67  |          |          |       |
| TED 462                                 | Professional Practices in TED   | 10<br>3      | _    | _              | 8.8                                   | ED BS SP 07  |          |          |       |
|   |   | _ ح          |      | <u>~</u>       |                                       |  |          |          |       |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

| <u> F</u> | RESH                                   | MAN                      | Semester 1   |             |                                 |                          | Companie - 6  |                  |
|-----------|--|--------------------------|--|-------------|---------------------------------|--------------------------|---|------------------|
| F         | Prefix                                 | Number                   | Course   | Cr.         | Prefix                          | Number                   | Semester 2  |                  |
|           | ENG<br>MAT<br>TED<br>TED<br>TED<br>UNI | 181<br>105<br>100<br>126 | English Composition I College Algebra Communicating Technical Designs Intro to Technology Education Engineer. Materials & Prod. Design | 3<br>3<br>3 | ENG<br>MAT<br>TED<br>TED<br>TED | 102<br>191<br>111<br>226 | English Composition II College Trigonometry Information Systems Apps. & Process Engineer. Mats. Design & Appropriate Technology | 3<br>3<br>3<br>3 |
| <u> </u>  | 0141 1                                 | 100                      | First Year Seminar Total   | 1<br>16     |                                 |                          | Total   | 15               |

| SOPHO      |            | Semester 3*  |             |                             |            | Semester 4**  |                  |
|------------|------------|--|-------------|-----------------------------|------------|---|------------------|
| ITE<br>PSY | 250<br>100 | Intro to Automation<br>General Psychology<br>General Education | 3<br>3<br>9 | Prefix<br>EDU<br>PSY<br>TED | 208<br>300 | Course Teaching In Multicultural Society Educational Psychology Assessment & Instruction in TED General Education | 3<br>3<br>3<br>7 |
|            |            | To   | otal 15     |                             |            | Total   | 16               |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| JUNIOR                             |                          | Semester 5   |                       |                   |            | Secretary 6   |                         |
|------------------------------------|--------------------------|--|-----------------------|-------------------|------------|---|-------------------------|
| Prefix<br>EDU<br>TED<br>TED<br>TED | 340<br>302<br>316<br>335 | Mainstreaming Exceptional Learn<br>Energy & Control Systems<br>Structural Design<br>Transportation Systems<br>Technical/Technological Elective | 3<br>3<br>3<br>3<br>3 | HPE<br>TED<br>TED | 304<br>346 | Semester 6 Course First Aid & Personal Safety Designs in Bio-Related Tech Digital Communications General Education Technical/Technological Elective | <b>C</b> r. 3 3 3 3 3 3 |
|                                    |                          | Total  | 15                    |                   |            | Total   | 15                      |

| SENIOR Prefix            | Number                   | Semester 7  |                       |                      |     | Semester 8   |                |  |
|--------------------------|--------------------------|---|-----------------------|----------------------|-----|--|----------------|--|
| TED<br>TED<br>TED<br>TED | 426<br>436<br>450<br>500 | Manufacturing Enterprise Engineering Design & Develop Teach. Tech-Secondary Sch Teach. Tech-Elementary Sch Technical/Technological Elective | 3<br>3<br>3<br>3<br>3 | Prefix<br>TED<br>TED | 461 | Course Technology Education Stud Teach Prof Practices in Tech Ed | Cr.<br>10<br>3 |  |
|                          |                          | Total   | 15                    |                      |     | Total  | 13             |  |

Credit Hours (BS Degree) Total = 120

Manuf Tech Controls to Technology Education - Bachelor of Science in Education (120 credits)

| Nan                                     | ne:  |            | En          | itry:          |                   | •   |            | •             |
|---|--|------------|-------------|----------------|-------------------|---|------------|---------------|
| Ema                                     |  | <u> </u>   | _           | ne:            |                   | <del></del>                                       | ID:        |               |
|   |  |            |             | ## <b>!</b> 6. |                   |   |            |               |
| GENE                                    | RAL EDUCATION (50-51 Credits                       | ۱۰ ه       | Cre G       | -odo           |                   | /20 Credital                                      |            |               |
| Buildi                                  | ng a Sense of Community - 1 credit                 | •          | O13 G1      | duc            | Permind           | Courses:  | 1          | Crs Grade     |
| EGR 1                                   | 100 Engineering Seminar                            | •          | 1 CC        |                | RBT 225           |   |            |               |
| ***                                     |  |            |             |                | MAT 116           |   |            | 4 CCAC        |
| Critica                                 | l Thinking Skills - 3 credits                      |            |             |                | EDD 101           | ···   |            | 4 CCAC        |
|   | 26 Manufacturing Enterprise*                       |            | 3 Ca        | a8 F R         | TED 111           |   |            | 3 CCAC        |
|   |  | _          | · <u> </u>  | -              | TED 116           |   |            | 3 Cal U       |
| Comm                                    | unication Skills - 6 credits                       |            |             |                | TED 126           |   |            | 3 Cal U       |
| ENG 1                                   |  |            | 3 CC        | - 0.0          | TED 304           |   | als        | 3 Cal U       |
| ENG 1                                   |  | - (        | 3 <u>CC</u> |                | TED 304           |   |            | 3 Cal U       |
|   |  |            |             | MU             | TED 335           | Transportation Systems                            |            | 3 Cal U       |
| Public :                                | Speaking - 3 credits                               |            |             |                | TED 436           | Digital Communications                            |            | 3 Cal U       |
|   |  |            | 3 Cai       |                | 1 ED 430          | Engineering Design & Development                  |            | 3 Cal U       |
| *************************************** |  | - `        |             |                | achnical/T        | echnological Electives - 8 credits                |            |               |
| <u>Mathen</u>                           | natics - 3 credits                                 |            |             | _14_           | EET 103           |   |            |               |
| MAT 11                                  | 4 Math for Technologies 1                          | _          | 4 CC/       | AC-            | SET 105           | Intro to Electronics                              | :          | 3 <u>CCAC</u> |
|   |  |            |             |                | EDD 120           | Technical Computing                               |            | 3 CCAC        |
| <b>Natural</b>                          | Sciences - 7-8 credits**                           |            |             | -              | EDD 120           | Intro to CAD                                      | '          | 4 CCAC        |
| PHY 11                                  | 3 Technical Physics 1                              | 2          | CC          | a~ =           | i eath <i>i</i> i | E /9 Candida)                                     |            |               |
|   | 2 Engineering Materials                            | - 7        | CC          |                |                   | E (3 Credits)                                     |            | •             |
|   |  | - "        | -           | 10             | MIT 103           | Fund of Microprocessors                           | 3          | 3 CCAC        |
| Social S                                | ciences - 6 credits                                |            |             |                |                   |   |            |               |
| PSY 10                                  |  | •          |             | A              | pproved Te        | echnicel/Technological Electives:                 |            |               |
| PSY 20                                  | Educational Psychology*                            | . ຈ        | CCA         |                | ON 141, 14        | 2, 241, 242, THE 141, CSC 120 or above            |            |               |
|   | - Lacotto III i Cycliclogy                         | J          | Cal         | U An           | y CET, EET,       | GCT, GET, ITE, MMT or TED course not alread       | y required | l             |
| Humanit                                 | lies - 3 credits                                   |            |             | Dy             | me major,         | or any other courses approved by the adviso       | r          |               |
|   | Humanities - Literature                            | 2          |             | A .m           |                   |   |            |               |
|   | - Enotatio   |            | CUA         | <u> </u>       | edaired co        | urses that must be completed.                     |            |               |
| Fine Arts                               | - 3 credits  |            | •           | ***            |                   |   |            |               |
|   | E o orogina  | _          |             | Man            | atural Scien      | ice: Complete one 4-credit LAB & one LAB or SC    | HENCE.     |               |
|   |  | 3          | Calt        | L TV           | B (4 crs): E      | BIO 115, BIO 206, CHE 101, PHY 121                |            | (4)           |
| Aulticult                               | ural Awareness - 3 credits                         |            |             | SC             | IENCE (3          | crs) EAS 163, ENS 101, PHS 120, PHS 13            | 7          | •             |
| EDU 310                                 | Teaching in a Multicultural Society *              | _          |             |                |                   | •   |            |               |
|   | 1 caching in a Mininchinal Society.                | 3          | Call        | j agr          | nission to T      | eacher Education - must be approved at 48 - 65    | credits    |               |
| /alues -                                | 3 credits  |            |             |                | 0 GPA over        | <del></del>                                       |            |               |
|   | Design & Appropriate Technology *                  |            |             | Co             | r batter grad     | des in 6 credits of math                          |            |               |
|   | besign a Appropriate Technology                    | 3          | Call        | <u> </u>       | r better grad     | des in 6 credits of composition/English liteati   | ure        |               |
| echnolo                                 | gical Literacy - 6 credits                         |            |             | Co             | r better gred     | de in TED 100                                     |            |               |
| TED 302                                 | Energy & Control Systems *                         | _          |             | Spe            | ech and he        | aring test  |            |               |
|   | Structural Design *                                | 3          | Cal U       | Doc            | ument Act         | 34, Act 114 and Act 151 clearances                |            |               |
| 720010                                  | Oracional Design                                   | 3          | Cal U       | Pas            | s Praxis ex       | ams in Reading, Writing, Math                     |            |               |
| eaith & \                               | Wellness - 3 credits                               |            |             |                |                   |   |            |               |
| HPE 314                                 | First Ard a D                                      | _          |             | Rec            | ommendatic        | on for Student Teaching - required 1 semester i   | prior      |               |
|   | That Aid a Personal Safety -                       | З.         | Cal U       |                |                   | Fall, Nov. 1 for Spring                           |            |               |
| riting C                                | omponent Courses - 2 courses                       |            |             | 3.00           | GPA overs         | all (at time of application & start of student te | aching)    |               |
| D 450 and                               | TED 451 listed below in the Professional Preparati |            |             | C or           | better grad       | e in each TED course                              |            |               |
| rik ana dani                            | onated I inner Phision May                         | on         |             | TB t           | est               |   |            |               |
| ~~ are 4 <del>0</del> 5                 | gnated Upper-Division Writing Component Course     | <b>S</b> . |             | Pass           | Praxis II T       | ED exam and Fundamental Subjects exam             |            |               |
| OFFee                                   | IONAL DEEDABATION (00 0                            |            |             | Cum            | ent Act 34,       | 114 & 151 clearances, valid thru student tea      | china      |               |
| COFESS.<br>EDU 340                      | IONAL PREPARATION (28 Credits)                     |            |             | \$1 m          | illion liability  | y insurance policy                                |            |               |
| ED 100                                  | Mainstreaming Exceptional Learners                 |            | Cal U       |                |                   | •   |            |               |
|   | Introduction to Technology Education               | 3 [        | Cal U       | EXT            | RA COURS          |   |            |               |
| ED 300                                  | Assessment & Instruction in TED                    | 3 [        | Cal U       | ELC            | 162 F             | ree Electives                                     | 17 (       | CCAC          |
| ED 450                                  | Teach Technology in Secondary Sch                  |            | Cal U       |                |                   |   | •••        |               |
| ED 451                                  | Teach Technology in Elementary Sch                 | 3 (        | Cal U       |                | T                 | ED BS SP 07                                       |            |               |
| ED 461                                  | Technology Education Student Teach                 |            | Cal U       |                |                   |   |            |               |
| ED 462                                  | Professional Practices in TED 3                    | 7          | Cal U       |                |                   |   |            |               |

#### Bachelor of Science in Education Degree (123 credits)

**Eight Semester Course Sequence** 

|   | FRESH  | MAN    | Semester 1                         |     |        |        | Semester 2                      |     |   |
|---|--------|--------|------------------------------------|-----|--------|--------|---------------------------------|-----|---|
|   | Prefix | Number | Course                             | Cr. | Prefix | Number | Course                          | Cr. | 1 |
|   | ENG    | 101    | English Composition I              | 3   | ENG    | 102    | English Composition II          | 3   | İ |
| - | MAT    | 181    | College Algebra                    | 3   | MAT    | 191    | College Trigonometry            | 3   | į |
| 1 | TED    |        | Communicating Technical Designs    | 3   | TED    | 111    | Information Systems             | 3   | ĺ |
| 1 | TED    |        | Intro to Technology Education      | 3   | TED    | 226    | Apps. & Process Engineer. Mats. | 3   | ı |
| ĺ | TED    |        | Engineer. Materials & Prod. Design | 3   | TED    | 210    | Design & Appropriate Technology | 3   |   |
| L | UNI    | 100    | First Year Seminar                 | 1   |        |        | <b>3</b>                        |     | l |
|   |        |        | Total                              | 16  |        |        | Total                           | 15  |   |

| SOPHO      |        | Semester 3*  |             |                   | _          | Semester 4**   |                  |
|------------|--------|--|-------------|-------------------|------------|--|------------------|
| Prefix     | Number | Course   | Cr.         | Prefix            | Number     | Course   | Cr.              |
| ITE<br>PSY | 100    | Intro to Automation<br>General Psychology<br>General Education | 3<br>3<br>9 | EDU<br>PSY<br>TED | 208<br>300 | Teaching In Multicultural Society Educational Psychology Assessment & Instruction in TED General Education | 3<br>3<br>3<br>7 |
|            |        | Total  | 15          |                   |            | Total  | 16               |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| ٠.  | <u>JUNIOR</u> |     | Semester 5                       |     |        |        | Semester 6                       |     |
|-----|---------------|-----|----------------------------------|-----|--------|--------|----------------------------------|-----|
| 1   | Prefix        |     | <u> </u>                         | Cr. | Prefix | Number | Course                           | Cr. |
| -   | EDU           | 340 | Mainstreaming Exceptional Learn  | 3   | HPE    | 314    | First Aid & Personal Safety      | 3   |
| ı   | TED           | 302 | Energy & Control Systems         | 3   | TED    | 304    | Designs in Bio-Related Tech      | 3   |
| - [ | TED           | 316 | Structural Design                | 3   | TED    | 3      | Digital Communications           | 3   |
| 1   | TED           | 335 | Transportation Systems           | 3   |        |        | General Education                | 3   |
| 1   |               |     | Technical/Technological Elective | 3   |        |        | Technical/Technological Elective | 3   |
| L   |               |     |                                  |     | ·      | · .    |                                  | j   |
| Ī   |               |     | Total                            | 15  |        |        | Total                            | 15  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number |                                  | Cr. | Prefix | Number | Course                          | Cr. |
| TED    |        | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   |        |        |                                 | _   |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |        |                                 |     |
|        |        | Total                            | 15  | I      |        | 7-4-1                           |     |
|        | į      | I Otal                           | 15  |        |        | Total                           | 13  |

Manuf Tech Machining to Technology Education - Bachelor of Science in Education (120 credits)

| Name:                 |  |     | Entr    | v:                |  | ID:          |          |       |
|-----------------------|--|-----|---------|-------------------|--|--------------|----------|-------|
| Email:                |  |     | Phone   |                   | <del>-</del>   | ·            |          |       |
|                       |  |     |         | · <del></del>     |  |              |          |       |
| GENER                 | AL EDUCATION (50-51 Credits):  | C.  | e Grade | MAJOR             | /39 Credite)   | _            |          | O     |
| Building              | a Sense of Community - 1 credit  | •   | * **    |                   | Courses:   | C            | 15       | Grade |
|                       | Engineering Seminar  | 1   | CCAC    |                   |  |              | <b>3</b> | 0-111 |
|                       |  | - ' | - 00/10 | MAT 116           |  |              | 3<br>4 - | Cal U |
| Critical T            | hinking Skills - 3 credits   |     |         | EDD 120           |  |              | _        | CCAC  |
|                       | Manufacturing Enterprise*  | 3   | Cal U   |                   | ,  |              | _        |       |
|                       |  | - ັ | - Car C | TED 126           |  | 3            | _        | Cal U |
| Commun                | ication Skills - 6 credits   |     |         | TED 226           |  | _            | -<br>3   | Cal U |
| ENG 101               | Composition I *  | 3   | CCAC    |                   |  | 3            | _        | Cal U |
| ENG 103               | Technical Communications   | - 3 | CCAC    | _                 | Transportation Systems                               | 3            | _        | Cal U |
|                       |  | . " |         | TED 346           |  | 3            |          | Cal U |
| Public Sp             | eaking - 3 credits   |     |         | TED 436           | Engineering Design & Development                     | 3            | _        |       |
|                       |  | 3   | Cal U   | 120700            | Figuresia & Design of Desemblish                     | 3            | <b>'</b> | Cal U |
|                       |  |     |         | Technical/I       | echnological Electives - 9 credits                   |              |          | •     |
| Mathemat              | ics - 3 credits  |     |         | EET 103           | Intro to Electronics                                 | 2            |          | CCAC  |
|                       | Math for Technologies 1  | 4   | CCAC    | MET 141           |  |              |          | CCAC  |
|                       | THE STATE OF THE S | 7   | OUNU    | EDD 101           | Engineering Drawing 1                                |              |          |       |
| Natural Sc            | iences - 7-8 credits**   |     |         |                   | Elifanositifi Dismitifi i                            | ³            |          | CCAC  |
| PHY 113               | Technical Physics 1  | 2   | CCAC    | EI ECTIV          | E (3 Credits)  |              |          |       |
| MET 112               | Engineering Materials  |     | CCAC    |                   |  | _            | _        |       |
|                       | Tildhiceluß Metelligie   | → . | COAC    | SE 1 100          | Technical Computing                                  | <sup>3</sup> |          | CCAC  |
| Social Sci            | ances - 6 credits  |     |         |                   | and the best to be the second of                     |              |          |       |
| PSY 101               | Intro to Psychology  | _   |         | Approved T        | echnical/Technological Electives:                    |              |          |       |
| PSY 208               | Educational Psychology*  | 3.  | CCAC    | COM 141, 14       | 42, 241, 242, THE 141, CSC 120 or above              |              |          |       |
| P31 206               | Educational Psychology   | 3.  | Calu    | Any CET, EET      | , GCT, GET, ITE, MMT or TED course not already re    | quired (     | by       |       |
| Liumanitia            | s 3 credits  |     |         | the major, or     | any other courses approved by the advisor            |              |          |       |
| TOLISH CORPORES       | <del></del>  | _   |         |                   |  |              |          |       |
|                       | Humanities - Literature  | 3 _ | CCAC    | "Required co      | ourses that must be completed.                       |              |          |       |
| Fi 0-4-               | <b>6</b>   |     |         |                   |  |              |          |       |
| Fine Arts             |  |     |         |                   | nce: Complete one 4-credit LAB and one LAB or SCI    | ENCE.        |          |       |
|                       |  | 3 _ | Cal U   |                   | BIO 115, BIO 206, CHE 101, PHY 121                   |              |          |       |
| B.S \$4.5 - B.C       |  | _   |         | SCIENCE (3        | crs) EAS 163, ENS 101, PHS 120, PHS 137              |              |          |       |
|                       | al Awareness - 3 credits   |     |         |                   |  |              |          |       |
| EDU 310               | Teaching in a Multicultural Society *  | 3 _ | Cal U   | Admission to      | Teacher Education - must be approved at 48 - 65 cr   | edits        |          |       |
|                       |  | _   |         | 2.80 GPA ove      | erall -  |              |          |       |
| <del>Values</del> - 3 |  |     |         |                   | ides in 6 credits of math                            |              |          |       |
| TED 210               | Design & Appropriate Technology *  | 3 _ | Cal U   | C or better gre   | ides in 6 credits of composition/English liteature   | <b>:</b>     |          |       |
|                       |  | _   |         | C or better gra   | ide in TED 100                                       |              |          |       |
|                       | cal Literacy - 6 credits   |     |         | Speech and h      | earing test  |              |          |       |
| TED 302               | Energy & Control Systems *   | 3 _ |         |                   | 34, Act 114 and Act 151 clearances                   |              |          |       |
| TED 316               | Structural Design *  | 3 – | Cal U   | Pass Praxis e     | kams in Reading, Writing, Math                       |              |          |       |
| i                     | _  | _   |         |                   | <b>.</b>   |              |          |       |
|                       | eliness - 3 credits  |     | 1       | Recommendati      | ion for Student Teaching - required 1 semester price | ).<br>).     |          |       |
| HPE 314               | First Aid & Personal Safety *  | 3   |         |                   | Fall, Nov. 1 for Spring                              |              |          |       |
|                       |  | -   |         |                   | rall (at time of application & start of student teac | hina)        |          |       |
| Vriting Con           | nponent Courses - 2 courses  |     |         |                   | de in each TED course                                | 8/           |          |       |
| ED 450 and TE         | D 451 listed below in the Professional Preparation   | n   |         | TB test           |  |              |          |       |
|                       | ated Upper-Division Writing Component Courses  |     |         |                   | TED exam and Fundamental Subjects exam               | *            |          |       |
|                       |  |     |         |                   | 114 & 151 clearances, valid thru student teach       | ina          |          |       |
| ROFESSIC              | NAL PREPARATION (28 Credits)   |     |         |                   | ity insurance policy                                 | ııı ığ       |          |       |
| EDU 340 I             | Mainstreaming Exceptional Learners 3   |     | Cal U   | y . II HINGI NEDI | of manager boiles                                    |              |          |       |
| TED 100               | ntroduction to Technology Education 3  | _   |         | EXTRA COUR        | 9858   |              |          |       |
| TED 300 A             | Assessment & Instruction in TED 3  |     |         |                   | <u>ises</u><br>Free Electives                        | 40           | ~~       | ٠٨٠   |
|                       | Feach Technology in Secondary Sch 3  | _   |         | LC 162            | IEE FIECHAES   | 19           | بات      | MU    |
|                       |  | -   | Cal U   | •                 | Ten er ann   | ,            |          |       |
|                       | tarbardan metalakan kecamatan kanalan kecamatan kecamatan kecamatan kecamatan kecamatan kecamatan kecamatan ke   | _   | Cal U   |                   | TED BS SP07  | 1            |          |       |
| TED 462 F             |  | _   | Cal U   |                   |  |              |          |       |
| 702                   | rotessional Practices in TED 3   |     | Cal U   |                   |  |              |          |       |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

|   | FRESH  | <i>r</i> an | Semester 1                         |     |        |        | Semester 2                      |     |
|---|--------|-------------|------------------------------------|-----|--------|--------|---------------------------------|-----|
|   | Prefix | Number      | Course                             | Cr. | Prefix | Number | Course                          | Cr. |
|   | ENG    | 101         | English Composition I              | 3   | ENG    | 102    | English Composition II          | 3   |
|   | MAT    | 181         | College Algebra                    | 3   | MAT    | 191    | College Trigonometry            | 3   |
| i | TED    | 105         | Communicating Technical Designs    | 3   | TED    | 111    | Information Systems             | 3   |
| 1 | TED    | 100         | Intro to Technology Education      | 3   | TED    | 226    | Apps. & Process Engineer. Mats. | 3   |
|   | TED    | 126         | Engineer. Materials & Prod. Design | 3   | TED    | 210    | Design & Appropriate Technology | 3   |
| Ì | UNI    | 100         | First Year Seminar                 | 1   |        |        | ·                               |     |
| • |        |             | Total                              | 16  |        |        | Total                           | 15  |

| SOPHO      | MORE       | Semester 3*                               |          |            |        | Semester 4**   |     |
|------------|------------|---|----------|------------|--------|--|-----|
| Prefix     | Number     | Course                                    | Cr.      | Prefix     | Number | Course   | Cr. |
| ITE<br>PSY | 250<br>100 | Intro to Automation<br>General Psychology | 3        | EDU<br>PSY |        | Teaching In Multicultural Society Educational Psychology | 3   |
|            | 100        | General Education                         | 9        | TED        | 300    | Assessment & Instruction in TED General Education        | 3 7 |
|            |            |   |          |            | ÷      |  |     |
| L          | <u></u>    |   | Total 15 |            |        | Total  | 16  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| JUNIOR   |        | Semester 5                       |     |        |             | Semester 6                       |     |
|----------|--------|----------------------------------|-----|--------|-------------|----------------------------------|-----|
| Prefix   | Number | Course                           | Cr. | Prefix | Number      | Course                           | Cr. |
| EDU      | 340    | Mainstreaming Exceptional Learn  | 3   | HPE    |             | First Aid & Personal Safety      | 3   |
| TED      | 302    | Energy & Control Systems         | - 3 | TED '  | 304         | Designs in Bio-Related Tech      | 3   |
| TED      | 316    | Structural Design                | 3   | TED    | 346         | Digital Communications           | 3   |
| TED      | 335    | Transportation Systems           | 3   |        |             | General Education                | 3   |
| 1        |        | Technical/Technological Elective | 3   |        |             | Technical/Technological Elective | 3   |
| ]. [     |        |                                  |     |        |             |                                  | i i |
| <u> </u> |        | Total                            | 15  |        | <del></del> | Total                            | 15  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix | Number |                                 | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | . 3 | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   | 1      |        |                                 |     |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        |                                 | •   |
|        |        | Technical/Technological Elective | 3   |        |        | •                               | 1   |
|        |        | _                                |     |        |        |                                 |     |
|        |        | Total                            | 15  |        |        | Total                           | 13  |

Manuf Tech Nano to Technology Education - Bachelor of Science in Education (120 credits)

| Name            | <b>):</b>                                    |          | Entry         | <b>/</b> :                              |                                   | ID                                     | •              |              |
|-----------------|--|----------|---------------|---|-----------------------------------|--|----------------|--------------|
| Email           | :  |          | Phone         |   |                                   | 10                                     | ·—             |              |
|                 |  |          |               | · <del></del>                           |                                   |  | _              |              |
| GENER           | AL EDUCATION (50-51 Credi                    | ite) c   | re Grade      | MAJOR                                   | (39 Credits)                      |  |                |              |
| Building        | a Sense of Community - 1 cre                 | dit      | . Olauc       |   | Courses:                          |  | Crs            | Grade        |
|                 | O Engineering Seminar                        | 4        | CCAC          |   | Intro to Automation               |  | _              | 0-411        |
|                 | Zinganeoning Continual                       | <u> </u> | CONO          | _                                       | Math for Technologies 2           |  | <b>3</b>       | CalU         |
| Critical '      | Thinking Skills - 3 credits                  |          |               |   | Communicating Technical           | D1                                     | 4.             | CCAC         |
| TED 426         | 3 Manufacturing Enterprise*                  | 2        | Cal U         | TED 103                                 | Information Systems               | Jesigns                                | 3.             | Cal U        |
| 7 60 76         | Jean Graduling Lineiphae                     | <u> </u> | Caro          |   |                                   |  | 3.             | CalU         |
| Commu           | nication Skills - 6 credits                  |          |               | 1ED 126                                 | Engineering Materials & Pro       | oduct Design                           | З.             | CalU         |
| ENG 101         |  | _        | 0050          | TED 226                                 | Apps.& Processing of Engi         | neering Materials                      | 3              | Cal U        |
|                 | Technical Communications                     | 3        | CCAC          | _ TED 304                               | Designs in Bio-Related Tec        | hnology                                | 3 ]            | Cal U        |
|                 | Technical Continuincations                   | <u> </u> | CCAC          | _ IEU 335                               | Transportation Systems            |  | 3 _            | Cal U        |
| Dublic S        | peaking - 3 credits                          |          |               |   | Digital Communications            |  | 3 _            | Cal U        |
| <u> </u>        | PERKIND - 2 CIECILS                          | _        | <b>6</b> -111 | 1 ED 436                                | Engineering Design & Deve         | lopment                                | 3 _            | Cal U        |
|                 |  | <u> </u> | Cal U         |   |                                   |  | -              |              |
| Reathern        | itics - 3 credits                            |          |               | ecnnical/                               | <u>echnological Electives</u> - S | credits                                |                |              |
|                 |  |          |               | EET 103                                 | Intro to Electronics              |  | . З            | CCAC         |
| MA 1 114        | Math for Technologies 1                      | 4        | CCAC          |   |                                   |  | 3              | Cal U        |
| Nadamal 6       | Antonian                                     |          |               |   |                                   |  | 3              | Cal U        |
|                 | clences - 7-8 credits**                      |          |               |   |                                   |  | _              | •            |
| PHY 113         |  | з        |               |   | E (3 Credits)                     |  |                |              |
| MET 112         | Engineering Materials                        | 4        | CCAC          | SET 105                                 | Technical Computing               |  | 3              | CCAC         |
|                 |  |          |               |   |                                   | ************************************** | _              |              |
| Social Sc       | iences - 6 credits                           |          |               | Approved T                              | echnical/Technological El         | ectives:                               |                |              |
| PSY 101         | Intro to Psychology                          | 3        | CCAC          | COM 141. 14                             | 42, 241, 242, THE 141, CSC        | 120 or above                           |                |              |
| PSY 208         | Educational Psychology*                      | — з      | Cal U         | Any CET. EET                            | , GCT, GET, ITE, MINT or TED      | course not already rea                 | nired          | ,            |
|                 |  |          |               |   | or any other courses approv       |  | W1) <b>G</b> Q | į            |
| <u>Humaniti</u> | es - 3 credits                               |          |               | • |                                   |  |                |              |
|                 | Humanities - Literature                      | 3        | CCAC          | *Required c                             | ourses that must be comple        | led                                    |                |              |
|                 |  |          |               |   | - and the continue                | ica.                                   |                |              |
| Fine Arts       | - 3 credits                                  | ,        |               | **************************************  | nce: Complete one 4-credit LA     | P and and I AP as COIT                 | NOT            |              |
| -               |  | 2        | Cal !!        | IAR (Acre):                             | BIO 115, BIO 206, CHE 101         | d ring one two of sciet                | NCE.           |              |
|                 |  | °.       | Vai U         | SCIENCE (3                              | cre) EAS 163, ENS 101, PI         | 1, PMY 121                             |                |              |
| Multicultu      | ral Awareness - 3 credits                    |          |               | SAIEIASE (S                             | (CIB) EAS 103, ENS 101, PI        | 35 120, PHS 137                        |                |              |
| EDU 310         | Teaching in a Multicultural Society *        | 3        | C-01 10       | Adminalan ta '                          | Taabar Mahaasii aa aa aa a        |  |                |              |
|                 | . Custing in a manadatal Cociety             | — ° -    |               |   | Teacher Education - must be a     | approved at 48 - 65 cred               | dits           |              |
| /alues -        | 3 credits                                    |          |               | 2.80 GPA ove                            |                                   |  |                |              |
| TED 210         | Design & Appropriate Technology *            | •        |               |   | ades in 6 credits of math         |  |                |              |
| . 20 2.0        | Besign a Appropriate Technology              | 3 _      |               |   | ades in 6 credits of composit     | ion/English liteature                  |                |              |
| Technolog       | ical Literacy - 6 credits                    |          |               |   | ade in TED 100                    |  |                |              |
| TED 302         | Energy & Control Systems *                   | _        | <b>A-111</b>  | Speech and h                            | earing test                       |  |                |              |
| TED 316         | Structural Design *                          | _ 3 _    | Calu          | Document Ac                             | 34, Act 114 and Act 151 cle       | arances                                |                |              |
| 120010          | Structural Design                            | _ 3 _    | Cal U         | Pass Praxis e                           | cams in Reading, Writing, M       | ath ·                                  |                |              |
| ealth & W       | Veliness - 3 credits                         |          | _             |   |                                   |  |                |              |
| HPE 314         |  | _        |               |   | ion for Student Teaching - rec    | juired 1 semester prior                |                |              |
| FIFE 314        | First Aid & Personal Safety *                | _ 3 _    |               |   | Fall, Nov. 1 for Spring           |  |                |              |
| Vritina Ca      | manant Courses Courses                       |          | 3             | 3.00 GPA over                           | rall (at time of application & s  | tart of student teaching               | ng)            |              |
| ED 450 and T    | mponent Courses - 2 courses                  |          | (             | or better gra                           | de in each TED course             |  |                |              |
| = 1 460 SIG I   | ED 451 listed below in the Professional Prep | aration  |               | B test                                  |                                   |  |                |              |
| ock are desig   | nated Upper-Division Writing Component Co    | urses.   | F             | Pass Praxis II                          | TED exam and Fundamenta           | al Subjects exam                       |                |              |
| noeree:         | ONAL PORMANAMANA                             |          |               | Current Act 34                          | , 114 & 151 clearances, valid     | d thru student teachin                 | ng .           |              |
| RUPESS!         | ONAL PREPARATION (28 Credit                  |          | \$            | 1 million liabil                        | ity insurance policy              |  | -              |              |
| EDU 340         | Mainstreaming Exceptional Learners           | 3        | Cal U         |   |                                   | •                                      |                |              |
| TED 100         | Introduction to Technology Education         | 3        | Cal U E       | XTRA COUR                               | SES                               |  |                |              |
| TED 300         | Assessment & Instruction in TED              | _        | Cal U E       |   | ree Electives                     | 3.                                     | 2 C            | CAC          |
| TED 450         | Teach Technology in Secondary Sch            |          | Cal U         |   |                                   | O.                                     |                | <i>-,</i> .0 |
|                 | Teach Technology in Elementary Sch           |          | Cal U         |   | · "                               | TED BS SP07                            |                |              |
| TED 461         | Technology Education Student Teach           |          | Cal U         |   |                                   | UTVI                                   |                |              |
| TED 462         | Professional Practices in TED                | _        | Cal U         |   |                                   |  |                |              |
|                 | · <del></del>                                |          |               |   |                                   |  |                |              |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

|   | FRESH  | /AN    | Semester 1                         |     |        |        | Semester 2                      |     | _ |
|---|--------|--------|------------------------------------|-----|--------|--------|---------------------------------|-----|---|
|   | Prefix | Number | Course                             | Cr. | Prefix | Number | Course                          | Cr. |   |
|   | ENG    | 101    | English Composition !              | 3   | ENG    | 102    | English Composition II          | 3   | l |
|   | MAT    | 181    | College Algebra                    | 3   | MAT    | 191    | College Trigonometry            | 3   | l |
|   | TED    | 105    | Communicating Technical Designs    | 3   | TED    | 111    | Information Systems             | 3   | l |
|   | TED    | 100    | Intro to Technology Education      | 3   | TED    |        | Apps. & Process Engineer. Mats. | 3   |   |
|   | TED    | 126    | Engineer. Materials & Prod. Design | 3   | TED    | 210    | Design & Appropriate Technology | 3   | ĺ |
| ٠ | UNI    | 100    | First Year Seminar                 | 1   |        |        |                                 |     |   |
| , |        |        | Total                              | 16  |        |        | Total                           | 15  |   |

| SOPHO  | WORE   | Semester 3*         |     |        | Semester 4** |                                   |     |  |  |
|--------|--------|---------------------|-----|--------|--------------|-----------------------------------|-----|--|--|
| Prefix | Number | Course              | Cr. | Prefix | Number       |                                   | Cr. |  |  |
| ITE    | 250    | Intro to Automation | 3   | EDU    | 310          | Teaching In Multicultural Society | 3   |  |  |
| PSY    | 100    | General Psychology  | 3   | PSY    | 208          | Educational Psychology            | 3   |  |  |
| 1      |        | General Education   | 9   | TED    | 300          | Assessment & Instruction in TED   | 3   |  |  |
| 1 1    |        |                     |     | l      |              | General Education                 | 7   |  |  |
|        |        | ·                   |     |        |              |                                   |     |  |  |
| 1 1    |        |                     |     |        |              |                                   | ,   |  |  |
|        |        | Total               | 15  |        | ,            | Total                             | 16  |  |  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| 1 | JUNIOR | _      | Semester 5                       |     |        |        | Semester 6                       |     |    |
|---|--------|--------|----------------------------------|-----|--------|--------|----------------------------------|-----|----|
|   | Prefix | Number | Course                           | Cr. | Prefix | Number | Course                           | Cr. | 긥  |
| - | EDU    | 340    | Mainstreaming Exceptional Learn  | 3   | HPE    | 314    | First Aid & Personal Safety      | 3   | ٦  |
| 1 | TED    | 302    | Energy & Control Systems         | 3   | TED    | 304    | Designs in Bio-Related Tech      | 3   | İ  |
| į | TED    | 316    | Structural Design                | 3   | TED    | 346    | Digital Communications           | 3   | .] |
| - | TED    | 335    | Transportation Systems           | 3   |        |        | General Education                | . 3 | 1  |
|   | ı      |        | Technical/Technological Elective | 3   |        |        | Technical/Technological Elective | 3   | ١  |
| ı | ł      |        |                                  |     |        |        |                                  |     | ı  |
| • |        |        | Total                            | 15  |        |        | Total                            | 15  | ]  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix | Number | Course                          | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   |        |        |                                 |     |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |        |                                 |     |
| L      |        | Total                            | 15  |        |        | Total                           | 13  |

Manuf Tech Weld to Technology Education - Bachelor of Science in Education (120 credits)

| Name:                |   |                | Entry: | <i>r</i> :  |       |
|----------------------|---|----------------|--------|---|-------|
| Email:               |   |                | Phone: | <u> </u>  |       |
| <b>E</b>             |   |                |        |   |       |
| GENERA               | L EDUCATION (50-51 Credits):                    | Crs            | Grade  | MAJOR (39 Credits) Crs  | Grade |
| Building :           | Sense of Community - 1 credit                   |                |        | Required Courses:   |       |
|                      | Engineering Seminar                             | 1              | CCAC   |   | Cal U |
| EGN 100              | Linguisting Commun                              | • •            |        |   | CCAC  |
| Critical Ti          | hinking Skills - 3 credits                      |                |        |   | CCAC  |
| TED 426              | · · · · · · · · · · · · · · · · · · ·           | 3              | Cal U  | TED 111 Information Systems 3   | Cal U |
| 1 ED 420             | Ingritutation of Enterprise                     | • •            |        |   | Cal U |
| Communi              | ication Skilis - 6 credits                      |                |        | TED 226 Apps.& Processing of Engineering Materials 3                    | Cal U |
| ENG 101              |   | 3              | CCAC   |   | Cal U |
| ENG 103              | Technical Communication                         | • з            | CCAC   | <u> </u>  | Cal U |
| ENG 103              | 1 CONTINUE CONTINUE NOTION                      | . •            |        | TED 346 Digital Communications 3  | Cal U |
| Dublic Sn            | eaking - 3 credits                              |                |        | TED 436 Engineering Design & Development 3                              | Cal U |
| Public 3p            | CARTINE - 3 CI COILS                            | 3              | Cal U  |   |       |
| منبسب                |   |                | 0410   | Technical/Technological Electives - 9 credits                           |       |
| B.f. o.f.b. o.m. o.f | ilcs - 3 credits                                |                |        |   | CCAC  |
|                      | Math for the Technologies 1                     | A .            | CCAC   | FF   100   110 to Freday 2: 110   | CCAC  |
| MAT 114              | Main for the Lechnologies I                     |                | COAC   |   | CCAC  |
| n                    | -i 7.0 anaditatt                                |                |        | WIE 1 ZOO MICHEOLOGY  |       |
|                      | iences - 7-6 credits**                          | _              | 2040   | ELECTIVE /2 Condite\  |       |
| PHY 113              | Technical Physics 1                             | Э.             | CCAC   |   | CCAC  |
| MET 112              | Engineering Materials                           | . 4.           | CCAC   | WLC 101 Welding Fundamentals 3  | JOAO  |
|                      |   |                |        |   |       |
| Social Sci           | ences - 6 credits                               | •              |        | Approved Technical/Technological Electives:                             |       |
| PSY 101              | Intro to Psychology *                           | 3.             | CCAC   | COM 141, 142, 241, 242, THE 141, CSC 120 or above                       |       |
| PSY 208              | Educational Psychology*                         | 3              | Cal U  | Any CET, EET, GCT, GET, ITE, MINT or TED course not already required by | У     |
| •                    |   | _              |        | the major, or any other courses approved by the advisor                 |       |
| Humanitie            | s - 3 credits                                   |                |        |   |       |
|                      | Any Humanities Literature Course                | 3 _            | CCAC   | *Required courses that must be completed.                               |       |
|                      |   |                |        | •   |       |
| Fine Arts            | - 3 credits                                     |                |        | **Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.    |       |
|                      |   | 3              | Cal U  | LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121                         |       |
|                      |   | •              |        | SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137                      |       |
| Multicultu           | ral Awareness - 3 credits                       |                |        |   |       |
| EDU 310              | Teaching in a Multicultural Society *           | 3              | Cal U  | Admission to Teacher Education - must be approved at 48 - 65 credits    |       |
| L00 510              | Teaching in a management Goolety                | ٠-             |        | 2.80 GPA overall  |       |
| Values -             | 3 credite                                       |                |        | C or better grades in 6 credits of math                                 |       |
| TED 210              |   | 3              | Cal U  |   |       |
| 1ED 210              | Design & Appropriate reciniology                | ٦ -            | 04: 0  | C or better grade in TED 100  |       |
| Toobnolog            | ical Literacy - 6 credits                       |                |        | Speech and hearing test   |       |
|                      |   | 3              | Colli  | · · · · · · · · · · · · · · · · · · ·                                   |       |
| TED 302              | Energy & Control Systems *                      | ွှံ -          | Cal U  | Document Act 34, Act 114 and Act 131 cleanances                         |       |
| TED 316              | Structural Design *                             | ٠ -            | CELU   | Pass Praxis exams in Reading, Writing, Math                             |       |
|                      |   |                |        | Recommendation for Student Teaching - required 1 semester prior         |       |
|                      | <u>/eliness</u> - 3 credits                     | _ `            |        |   |       |
| HPE 314              | First Aid & Personal Safety *                   | 3 _            |        | Due Jun. 1 for Fall, Nov. 1 for Spring                                  |       |
| 145-14! <b>O</b> -   |   |                |        | 3.00 GPA overall (at time of application & start of student teaching)   |       |
|                      | mponent Courses - 2 courses                     |                |        | C or better grade in each TED course                                    |       |
|                      | ED 451 listed below in the Professional Prepara |                |        | TB test   |       |
| block are desig      | nated Upper-Division Writing Component Cours    | <b>es</b> .    |        | Pass Praxis II TED exam and Fundamental Subjects exam                   |       |
|                      |   |                |        | Current Act 34, 114 & 151 clearances, valid thru student teaching       |       |
| PROFESSI             | ONAL PREPARATION (28 Credits)                   | )              |        | \$1 million liability insurance policy                                  |       |
| EDU 340              | Mainstreaming Exceptional Learners              | 3 _            | Cal U  | •   |       |
| TED 100              | Introduction to Technology Education            | 3 [            | Cal U  | EXTRA COURSES   |       |
| TED 300              | Assessment & Instruction in TED                 | 3 ີ            | Cal U  | ELC 162 Free Electives 20 CC  | CAC   |
| TED 450              | Teach Technology in Secondary Sch               | 3 -            | Cal U  | '   |       |
| TED 451              | Teach Technology in Elementary Sch              | 3 -            | Cal U  | TED BS SP07   |       |
| TED 461              |   | 10             | Cal U  | •   |       |
| TED 462              | Professional Practices in TED                   | з <sup>-</sup> | Cal U  |   |       |

#### Bachelor of Science in Education Degree (123 credits)

**Eight Semester Course Sequence** 

| FRESH  | MAN    | Semester 1                         | Semester 2 |        |        |                                 |     |
|--------|--------|------------------------------------|------------|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                             | Cr.        | Prefix | Number | Course                          | Cr. |
| ENG    | 101    | English Composition I              | 3          | ENG    | 102    | English Composition II          | 3   |
| MAT    | 181    | College Algebra                    | 3          | MAT    | 191    | College Trigonometry            | 3   |
| TED    | 105    | Communicating Technical Designs    | 3          | TED    | 111    | Information Systems             | 3   |
| TED    | 100    | Intro to Technology Education      | 3          | TED    | 226    | Apps. & Process Engineer. Mats. | 3   |
| TED    | 126    | Engineer. Materials & Prod. Design | 3          | TED    |        | Design & Appropriate Technology | 3   |
| UNI    | 100    | First Year Seminar                 | 1          |        |        |                                 |     |
|        |        | Total                              | 16         |        | •      | Total                           | 15  |

| SOPHO    | MORE   | Semester 3*         |          | •        |        | Semester 4**                      |     |
|----------|--------|---------------------|----------|----------|--------|-----------------------------------|-----|
| Prefix   | Number | Course              | Cr.      | Prefix   | Number | Course                            | Cr. |
| ITE      | 250    | intro to Automation | 3        | EDU      |        | Teaching In Multicultural Society | 3   |
| PSY      | 100    | General Psychology  | 3        | PSY      |        | Educational Psychology            | 3   |
| 1        |        | General Education   | 9        | TED      |        | Assessment & Instruction in TED   | 3   |
|          | 1      | i                   | 1        |          | 1      | General Education                 | 7   |
|          |        |                     | 1        |          |        |                                   | 1   |
| <u> </u> | L      |                     | <u> </u> | <u> </u> | *      |                                   |     |
|          |        | Tota                | 1 15     | 1        |        | Total                             | 16  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| JUNIOR | <u></u> | Semester 5                       |     |        |                                       | Semester 6                       |     |
|--------|---------|----------------------------------|-----|--------|---------------------------------------|----------------------------------|-----|
| Prefix | Number  | Course                           | Cr. | Prefix | Number                                | Course                           | Cr. |
| EDU    |         | Mainstreaming Exceptional Learn  | 3   | HPE    | 314                                   | First Aid & Personal Safety      | 3   |
| TED    | 302     | Energy & Control Systems         | 3   | TED    | 304                                   | Designs in Bio-Related Tech      | 3   |
| TED    | 316     | Structural Design                | 3   | TED    | 346                                   | Digital Communications           | 3   |
| TED    | 335     | Transportation Systems           | 3   |        |                                       | General Education                | 3   |
|        |         | Technical/Technological Elective | 3   |        |                                       | Technical/Technological Elective | 3   |
|        | !       | _                                |     |        |                                       |                                  | 1   |
|        |         | Total                            | 15  |        | · · · · · · · · · · · · · · · · · · · | Total                            | 15  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix | Number | Course                          | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   |        | . *    |                                 |     |
| TED    |        | Teach. Tech-Elementary Sch       | 3   | Ħ i    |        |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |        |                                 |     |
|        |        |                                  |     |        |        |                                 |     |
|        |        | Total                            | 15  |        |        | Total                           | 13  |

Mech Drf & Des to Technology Education - Bachelor of Science in Education (120 credits)

| Name:                      |  |      | <ul> <li>Entry</li> </ul>               | <b>/:</b>                  |   | ID:       |                   |
|----------------------------|--|------|---|----------------------------|---|-----------|-------------------|
| Email:                     |  |      | Phone                                   |                            | <del></del>   |           |                   |
|                            |  |      | _                                       |                            |   |           |                   |
| GENER                      | AL EDUCATION (50-51 Credits):                    | Cr   | s Grade                                 | MAJOR                      | (39 Credits)  | Crs       | Grade             |
| <u>Building</u>            | a Sense of Community - 1 credit                  |      | •                                       | Required                   | Courses:  |           |                   |
| EGR 100                    | Engineering Seminar                              | _ 1  | CCAC                                    | ITE 250                    | Introduction to Automation  | 3         |                   |
|                            |  | •    |   | MAT116                     | Math for the Technologies 2   | 4         | CCAC              |
| Critical T                 | <u>'hinking Skills</u> - 3 credits               |      |   | EDD 101                    | Engineering Drawing 1   | 3         | CCAC              |
| TED 426                    | Manufacturing Enterprise*                        | _ 3  | Cal U                                   |                            | Information Systems   | 3         |                   |
|                            |  |      |   | TED 126                    | Engineering Materials & Product Design  | 3         |                   |
|                            | ication Skills - 6 credits                       |      | *****                                   | TED 226                    | •   | s 3       | V                 |
| ENG 101                    |  | _ 3  | CCAC                                    |                            |   | 3         |                   |
| ENG 103                    | Technical Communication                          | . 3  | CCAC                                    | TED 335                    | Transportation Systems  | 3         |                   |
| D                          |  |      |   | TED 346                    |   | 3         |                   |
| Public Sp                  | <u>eaking</u> - 3 credits                        |      | - 0400 to 1400 to                       | TED 436                    | Engineering Design & Development  | · 3       | <u> </u>          |
|                            | W - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -          | . 3  | Cal U                                   |                            |   |           |                   |
| B# -43                     | 4! 0   |      |   |                            | <u>[echnological Electives</u> - 9 credits                                      |           | and the latest of |
|                            | tics - 3 credits                                 |      | CONTRACTOR                              | EDD 120                    | Intro to CAD  | 4.        | CCAC              |
| WA1 114                    | Math for the Technologies 1                      | . 4  | CCAC                                    | MET 150                    | Statics   | 4 :       | CCAC              |
| Note and C                 | siamana 7 0 augulitatt                           |      |   | MET 211                    | Strength of Materials   | 4         | CCAC              |
|                            | ciences - 7-8 credits**                          | _    | المراه المناسلين                        | EL FOTA                    | r (8 0 dit-)  |           |                   |
| PHY 113                    |  | 3    |   |                            | E (3 Credits)   | _         |                   |
| MET 112                    | Engineering Materials                            | 4    | CCAC                                    | SEI 105                    | Technical Computing   | 3 .       | CCAC              |
| Coolel Cal                 | ionaca 6 aradita                                 |      |   |                            |   |           |                   |
| PSY 101                    | iences - 6 credits Intro to Psychology *         | _    |   |                            | echnical/Technological Electives:   |           |                   |
| PSY 208                    |  |      |   |                            | 42, 241, 242, THE 141, CSC 120 or above   |           |                   |
| F31 206                    | Educational Psychology                           | 3    | UBI U                                   | -                          | , GCT, GET, ITE, MMT or TED course not already re                               | equirea b | y                 |
| Humanitie                  | es 3 credits                                     |      |   | the major, or              | rany other courses approved by the advisor                                      |           |                   |
| 1 6 599 8 11 57 6 12 5 6 5 | Any Humanities Literature Course                 | 3    | CCAC                                    | *Possisod o                | ourses that must be completed.  |           |                   |
| <del></del>                | Any Frantaintes Energible Course                 | 3    | CCAC                                    | reduited c                 | ourses that must be completed.  |           |                   |
| Fine Arts                  | - 3 credits                                      |      |   | **Notural Sain             | nce: Complete one 4-credit LAB and one LAB or SC                                | IENCE     |                   |
| THE AILS                   | ·  | •    | Jana                                    |                            |   | HENCE.    |                   |
|                            |  | 3    | Cal U                                   |                            | BIO 115, BIO 206, CHE 101, PHY 121<br>3 crs) EAS 163, ENS 101, PHS 120, PHS 137 | ,         |                   |
| Multicultu                 | ral Awareness - 3 credits                        |      |   | DOIL NOL (                 | 0 CIS/ LAG 103, ENG 101, FING 120, FING 107                                     |           |                   |
| EDU 310                    | Teaching in a Multicultural Society *            | 3    | Call :                                  | Admission to               | Teacher Education - must be approved at 48 - 65 c                               | rodite    |                   |
| <u> </u>                   | reading in a manifestural deciety                | ٠.   |   | 2.80 GPA ov                |   | cuita     | ٠.                |
| Values - :                 | 3 credits  |      |   |                            | rades in 6 credits of math  |           |                   |
| TED 210                    | Design & Appropriate Technology *                | 3    |   |                            | rades in 6 credits of matri<br>rades in 6 credits of composition/English litea  | ture      |                   |
|                            |  | ٠.   |   |                            | rade in TED 100   | uie       |                   |
| Technolog                  | ical Literacy - 6 credits                        |      |   | Speech and i               |   |           |                   |
|                            | Energy & Control Systems *                       | 3    |   |                            | ct 34, Act 114 and Act 151 clearances   |           |                   |
| TED 316                    | Structural Design *                              | _    |   |                            | exams in Reading, Writing, Math   |           |                   |
| <del></del>                |  | -    | 1 (100000000000000000000000000000000000 | · uoo · ranio ·            | one in Modeling, Withing, Math  |           |                   |
| Health & W                 | Veliness - 3 credits                             |      | :                                       | Recommendat                | ion for Student Teaching - required 1 semester price                            | ог        |                   |
| HPE 314                    | First Aid & Personal Safety *                    | 3    | A CARROLL AND THE PARTY                 | [1] 18 43 12 6 4 6 8 7 6 7 | or Fall, Nov. 1 for Spring  |           |                   |
|                            |  | _    |   |                            | erall (at time of application & start of student t                              | eaching   | D)                |
| <b>Nriting Co</b>          | mponent Courses - 2 courses                      |      |   |                            | ade in each TED course  |           | •                 |
| ED 450 and 1               | ED 451 listed below in the Professional Preparat | ion  |   | TB test                    |   |           | ,                 |
| lock are desig             | nated Upper-Division Writing Component Course    | es.  |   |                            | I TED exam and Fundamental Subjects exan  | n         |                   |
|                            | •  |      |   |                            | 4, 114 & 151 clearances, valid thru student te                                  |           |                   |
| PROFESSI                   | ONAL PREPARATION (28 Credits)                    |      |   |                            | ility insurance policy  | _         |                   |
| EDU 340                    |  | 3 :: | Cal U                                   | •                          | - · · · · · · · · · · · · · · · · · · ·   |           |                   |
| TED 100                    |  | 3 .  | CalU                                    | EXTRA COU                  | RSES .  |           |                   |
| TED 300                    |  | 3 🖥  | -                                       |                            | Free Electives  | 22 c      | cac               |
| TED 450                    |  | 3    | Cal U                                   | -                          |   |           |                   |
| TED 451                    |  | 3    | Cal U                                   |                            | TED BS SP0  | 7         |                   |
| TED 461                    | Technology Education Student Teach               | 10 🛚 | Cal U                                   |                            |   |           |                   |
| TED 462                    | Professional Practices in TED                    | 3 🖺  | Cal U                                   |                            |   |           |                   |

#### **Bachelor of Science in Education Degree (123 credits)**

**Eight Semester Course Sequence** 

| FRESHMAN Semester 1 |        |                                    |     |        | Semester 2 |                                 |     |
|---------------------|--------|------------------------------------|-----|--------|------------|---------------------------------|-----|
| Prefix              | Number | Course                             | Cr. | Prefix | Number     | Course                          | Cr. |
| ENG                 | 101    | English Composition I              | 3   | ENG    | 102        | English Composition II          | 3   |
| MAT                 | 181    | College Algebra                    | 3   | MAT    | 191        | College Trigonometry            | 3   |
| TED                 | 105    | Communicating Technical Designs    | 3   | TED    | 111        | Information Systems             | 3   |
| TED                 | 100    | Intro to Technology Education      | 3   | TED    | 226        | Apps. & Process Engineer. Mats. | 3   |
| TED                 | 126    | Engineer. Materials & Prod. Design | 3   | TED    | 210        | Design & Appropriate Technology | 3   |
| UNI                 | 100    | First Year Seminar                 | 1   | ·      |            |                                 | _   |
|                     |        | Total                              | 16  |        |            | Total                           | 15  |

| SOPHOMORE Semester 3* Semester 4** |        | Semester 4**   |             |                   |                   |  |                  |
|------------------------------------|--------|--|-------------|-------------------|-------------------|--|------------------|
| Prefix                             | Number | Course   | Cr.         | Prefix            | Number            | Course   | Cr.              |
| ITE<br>PSY                         |        | Intro to Automation<br>General Psychology<br>General Education | 3<br>3<br>9 | EDU<br>PSY<br>TED | 310<br>208<br>300 | Teaching In Multicultural Society Educational Psychology Assessment & Instruction in TED General Education | 3<br>3<br>3<br>7 |
|                                    |        | Tota   | 15          | <b> </b>          | L                 | Total  | 16               |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| JUNIOR   |        | Semester 5                       |     |          |        | Semester 6                       |      |
|----------|--------|----------------------------------|-----|----------|--------|----------------------------------|------|
| Prefix   | Number | Course                           | Cr. | Prefix   | Number | Course                           | Cr.  |
| EDU      | 340    | Mainstreaming Exceptional Learn  | 3   | HPE      | 314    | First Aid & Personal Safety      | 3    |
| TED      | 302    | Energy & Control Systems         | 3   | TED      | 304    | Designs in Bio-Related Tech      | 3    |
| TED      | 316    | Structural Design                | - 3 | TED      | 346    | Digital Communications           | 3    |
| TED      | 335    | Transportation Systems           | 3   |          |        | General Education                | 3    |
|          |        | Technical/Technological Elective | 3   |          |        | Technical/Technological Elective | 3    |
| تــــــا |        | Total                            | 15  | <u> </u> |        | Total                            | 15   |
|          |        | TOLAI                            | 10  | 1        |        | I Otal                           | _ ;5 |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix | Number | Course                          | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   | •      |        | ]                               | 1   |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        | [                               |     |
| -      |        | Technical/Technological Elective | 3   |        |        |                                 | ļ   |
|        |        |                                  |     |        |        |                                 |     |
|        |        | Total                            | 15  |        |        | Total                           | 13  |

Microcomp Electronics to Technology Education - Bachelor of Science in Education (120 credits)

| Name:            |   |              | Entry      | :                | •   | ID:                                    |          |
|------------------|---|--------------|------------|------------------|---|--|----------|
| Email:           |   |              | Phone      |                  |   | •                                      |          |
| <b>=</b> 111011. |   |              | - " "10"10 | •                | <del></del>   |  |          |
| ^=\==            | I PRIMATION IES EL SANTILL                      | ۱            | A          | BEA IOD          | 120 Conditol  | 0                                      |          |
|                  | AL EDUCATION (50-51 Credits                     |              | Grade      |                  | (39 Credits)  | Crs                                    | Grade    |
|                  | Sense of Community - 1 credit                   |              |            |                  | Courses:  | _                                      |          |
| EGR 100          | Engineering Seminar                             | 1            | CCAC       | _                |   | 3                                      | Cal U    |
|                  |   |              |            | MAT 116          |   | 4                                      | CCAC     |
| Critical T       | <u>hinking Skills</u> - 3 credits               |              |            | TED 105          | Communicating Technical Designs                     | 3                                      | Cal U    |
| TED 426          | Manufacturing Enterprise*                       | 3            | Cal U      | TED 111          | Information Systems                                 | 3.                                     | Cal U    |
|                  |   | _            |            | TED 126          | Engineering Materials & Product Design              | 3                                      | Cal U    |
| Commun           | ication Skills - 6 credits                      |              |            | <b>TED 226</b>   | Apps.& Processing of Engineering Materials          | s . 3                                  | Cal U    |
| ENG 101          |   | 3            | CCAC       | TED 304          |   | 3                                      | Cal U    |
| ENG 108          | Report Writing                                  | - ă          | CCAC       | TED 335          | ,   | 3                                      | Cal U    |
| -2146 100        | Teport Williams                                 | <b>-</b> ~ . | OOAO       | TED 346          |   | 3                                      | Cal U    |
| Dublic Sn        | eaking - 3 credits                              |              |            | TED 436          |   | 3                                      | Cal U    |
| Public Sp        | BEARING - 3 CICCIES                             |              | O1 61      | 120400           | Eudinearing Daardu or Develobuseur                  |  | <u> </u> |
|                  |   | _ 3 .        | Cal U      |                  |   |  |          |
|                  |   |              |            | ( ecunical (     | <u> echnological Electives</u> - 9 credits          | _                                      |          |
|                  | tics - 3 credits                                |              |            |                  | Technical Elective                                  | 3                                      | CCAC     |
| MAT 114          | Math for Technologies 1                         | _ 4 .        | CCAC       | <u> </u>         | Technical Elective                                  | 3                                      | CCAC     |
|                  | •   |              |            |                  |   | 3                                      | Cal U    |
| Natural Sc       | <u>:iences</u> - 7-8 credits**                  |              |            |                  |   |  |          |
| PHY 113          | Technical Physics 1                             | 3            | CCAC       | ELECTIV          | E (3 Credits)                                       |  |          |
| PHY 114          | Technical Physics 2                             | - š·         | CCAC       |                  | Technical Computing                                 | 3                                      | CCAC     |
| 3111114          | T COTTIFICAL . THY OTHER Z                      | - ` .        | 00/10      | 021 100          | . comment company                                   | ······································ |          |
| 0                | Coundito  |              |            | A                |   |  |          |
|                  | ences - 6 credits                               | _            |            |                  | Technical/Technological Electives:                  |  |          |
| PSY 101          | Intro to Psychology                             | _ 3 _        |            |                  | 42, 241, 242, THE 141, CSC 120 or above             |  |          |
| PSY 208          | Educational Psychology*                         | _ 3 _        | CalU       |                  | F, GCT, GET, ITE, MMT or TED course not already     | required t                             | yy Y     |
|                  |   |              |            | the major, or    | any other courses approved by the advisor           |  |          |
| <u>Humanitie</u> | s 3 credits                                     |              |            |                  | •   |  |          |
|                  | Humanities - Literature                         | 3            | CCAC       | *Required c      | ourses that must be completed.                      |  |          |
|                  |   |              |            |                  |   | •                                      |          |
| Fine Arts        | - 3 credits                                     |              |            | "Natural Scie    | ence: Complete one 4-credit LAB and one LAB or S    | SCIENCE.                               |          |
|                  |   | 3            | Call       |                  | BIO 115, BIO 208, CHE 101, PHY 121                  |  |          |
| <del></del>      |   | - ~ -        | Vai U      |                  | 3 crs) EAS 163, ENS 101, PHS 120, PHS 13            | 7                                      |          |
| B.0 14 ional 6   | ral Awareness - 3 credits                       |              |            | SOME INC.        | 5 0/8/ LAS 105, ENG 101, FITO 125, FITO 10          | ,                                      |          |
|                  |   | _            |            | A                |   |  |          |
| EDU 310          | Teaching in a Multicultural Society *           | . 3 _        |            |                  | Teacher Education - must be approved at 48 - 65     | CIOUIIS                                |          |
|                  | D   |              |            | 2.80 GPA ov      |   |  |          |
|                  | credits   |              |            |                  | rades in 6 credits of math                          |  |          |
| TED 210          | Design & Appropriate Technology *               | . З_         |            |                  | rades in 6 credits of composition/English liteat    | ure                                    |          |
|                  |   |              |            | C or better gr   | rade in TED 100                                     |  |          |
| <u>Technolog</u> | ical Literacy - 6 credits                       |              |            | Speech and I     | hearing test  |  |          |
| TED 302          | Energy & Control Systems *                      | 3            |            |                  | ct 34, Act 114 and Act 151 clearances               |  |          |
| TED 316          | Structural Design *                             | ` з =        |            |                  | exams in Reading, Writing, Math                     |  |          |
|                  |   | · -          |            |                  |   |  |          |
| Health & W       | /eilness - 3 credits                            |              |            | Recommenda       | tion for Student Teaching - required 1 semester     | prior                                  |          |
| HPE 314          | First Aid & Personal Safety *                   | 3            |            |                  | or Fall, Nov. 1 for Spring                          |  |          |
| 111 2 017        | 1 list Ald di Personal Gallety                  | · ~ –        |            |                  |   | -ahina)                                |          |
| Al-itima Ca      | mpanant Causaan 2 aasuraan                      |              |            |                  | erall (at time of application & start of student te | acining)                               |          |
|                  | mponent Courses - 2 courses                     |              |            | •                | ade in each TED course                              |  |          |
|                  | ED 451 listed below in the Professional Prepara |              |            | TB test          |   |  |          |
| olock are desig  | nated Upper-Division Writing Component Coun     | S8S.         |            |                  | I TED exam and Fundamental Subjects exam            |  |          |
|                  |   |              |            | Current Act 3    | 4, 114 & 151 clearances, valid thru student te      | aching                                 |          |
| PROFESSI         | ONAL PREPARATION (28 Credits                    | •)           |            | \$1 million liab | ility insurance policy                              |  |          |
|                  | Mainstreaming Exceptional Learners              | 3            | Cal U      |                  | · ·   |  |          |
|                  | Introduction to Technology Education            | 3 -          |            | EXTRA COU        | RSES*   |  | •        |
|                  | Assessment & Instruction in TED                 | 3 -          | Cal U      |                  | Free Electives                                      | 29 (                                   | CCAC     |
| 1                | Teach Technology in Secondary Sch               | 3 -          | Cal U      | 102              |   |  | <b></b>  |
|                  |   | 3 -          | Cal U      |                  | TED BS SP   | <b>n7</b>                              |          |
|                  | Teach Technology in Elementary Sch              |              |            |                  | IEN DO OL   |  |          |
|                  | Technology Education Student Teach              | -            | Cal U      | •                |   |  |          |
| TED 462          | Professional Practices in TED                   | з _          | Cal U      |                  |   |  |          |

#### Bachelor of Science in Education Degree (123 credits)

**Eight Semester Course Sequence** 

**FRESHMAN** Semester 1 Semester 2 Prefix Number Course Prefix Number Course Cr. English Composition I ENG 101 ENG 102 English Composition II 3 MAT 181 College Algebra College Trigonometry 3 MAT 191 3 TED 105 Communicating Technical Designs 3 **TED** Information Systems 111 3 TED 100 Intro to Technology Education TED 3 226 Apps. & Process Engineer. Mats. 3 TED 126 Engineer. Materials & Prod. Design 3 TED 210 Design & Appropriate Technology 3 UNI 100 First Year Seminar 16 15

| SOPHO  |            | Semester 3*  |             | Semester 4**      |        |  |             |  |  |  |
|--------|------------|--|-------------|-------------------|--------|--|-------------|--|--|--|
| Prefix | Number     |  | Cr.         | Prefix            | Number | Course   | Cr.         |  |  |  |
| PSY    | 250<br>100 | Intro to Automation<br>General Psychology<br>General Education | 3<br>3<br>9 | EDU<br>PSY<br>TED | 208    | Teaching in Multicultural Society Educational Psychology Assessment & Instruction in TED | 3<br>3<br>3 |  |  |  |
|        |            | Total  | 15          |                   |        | General Education Total  | 16          |  |  |  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| <u>JUNIOR</u> |        | Semester 5                       |     |        |        | Semester 6                       |     |
|---------------|--------|----------------------------------|-----|--------|--------|----------------------------------|-----|
| Prefix        | Number |                                  | Cr. | Prefix | Number | Course                           | Cr. |
| EDU           | 340    | Mainstreaming Exceptional Learn  | 3   | HPE    | 314    | First Aid & Personal Safety      | 3   |
| TED           | 302    | Energy & Control Systems         | 3   | TED    |        | Designs in Bio-Related Tech      | 3   |
| TED           | 316    | Structural Design                | 3   | I TED  |        | Digital Communications           | 3   |
| TED           | 335    | Transportation Systems           | 3   | 11 1   |        | General Education                | 3   |
|               |        | Technical/Technological Elective | 3   |        |        | Technical/Technological Elective | 3   |
| Li            |        | Total                            | 15  |        |        | Total                            | 15  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      | •   |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number |                                  | Cr. | Prefix | Number | Course                          | Cr. |
| TED    |        | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    |        | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    |        | Teach. Tech-Secondary Sch        | 3   |        |        |                                 |     |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |        |                                 |     |
|        |        |                                  |     |        |        |                                 |     |
|        |        | Total                            | 15  |        |        | Total                           | 13  |

Robotics to Technology Education - Bachelor of Science in Education (120 credits)

| Name:             |   |       | Entry   | <i>r</i> :           |   | ID:         |       |
|-------------------|---|-------|---------|----------------------|---|-------------|-------|
| Email:            |   |       | _,hone  |                      | <del></del>   |             |       |
| <b>2</b> 11,2     |   |       | -       |                      |   |             |       |
| GENER             | AL EDUCATION (50-51 Credits)                    | : Cr  | s Grade | MAJOR                | (39 Credits)  | Crs         | Grade |
|                   | a Sense of Community - 1 credit                 |       |         | Required             | Courses:  |             |       |
|                   | Engineering Seminar                             | 1     | CCAC    | ITE 250              | Introduction to Automation                          | 3           | Cal U |
|                   |   | -     |         | MAT 116              |   | . 4         | CCAC  |
| Critical T        | hinking Skills - 3 credits                      |       |         | TED 105              | Communicating Technical Designs                     | 3           |       |
| TED 426           |   | 3     | Cal U   | TED 111              | Information Systems                                 | 3           |       |
|                   |   |       |         | TED 128              |   | 3           |       |
| Commun            | ication Skills - 6 credits                      |       |         | TED 226              |   | 3           |       |
| ENG 101           | Composition I *                                 | _ 3   | CCAC    | TED 304              | Designs in Bio-Related Technology                   | 3           |       |
| ENG 106           | Report Writing                                  | _ 3   | CCAC    | TED 335              |   | 3 ,         |       |
|                   |   |       |         | TED 346              |   | 3 .         |       |
| Public Sp         | <u>eaking</u> - 3 credits                       |       |         | TED 436              | Engineering Design & Development                    | 3 .         |       |
|                   |   | _ 3   |         | _                    |   |             |       |
|                   |   |       |         |                      | <u> Technological Electives</u> - 9 credits         |             |       |
| Mathema           | <u>tics</u> - 3 credits                         |       |         | <b>EET 103</b>       | Intro Electronics                                   | 3.          | CCAC  |
| MAT 114           | Math for Techologies 1                          | _ 4   | CCAC    |                      | Robotics Control Systems                            | 4 .         | CCAC  |
|                   |   |       |         | MET 170              | Fluid Power Systems                                 | 4 .         | CCAC  |
| Natural S         | <u>clences</u> - 7-8 credits**                  |       |         |                      |   |             |       |
| PHY 113           | Technical Physics 1                             | _ 3   |         |                      | /E (3 Credits)                                      |             |       |
| PHY 114           | Technical Physics 2                             | 3     | CCAC    | SET 105              | Technical Computing                                 | 3.          | CCAC  |
|                   | ·   | -     |         |                      |   | •           |       |
| Social Sc         | <u>iences</u> - 6 credits                       |       |         | Approved 1           | Fechnical/Technological Electives:                  |             |       |
| PSY 101           | Intro to Psychology                             |       |         |                      | 42, 241, 242, THE 141, CSC 120 or above             |             |       |
| PSY 208           | Educational Psychology*                         | 3     | Cal U   |                      | T, GCT, GET, ITE, MMT or TED course not already     | required by | ,     |
|                   |   | •     |         | the major, or        | rany other courses approved by the advisor          |             |       |
| <u>Humanitie</u>  | es - 3 credits                                  |       |         |                      |   |             |       |
|                   | Humanities - Literature                         | _ 3   | CCAC    | "Required o          | courses that must be completed.                     |             |       |
|                   |   |       |         |                      | •   |             |       |
| Fine Arts         | - 3 credits                                     |       |         | "Netural Sci         | ence: Complete one 4-credit LAB and one LAB or S    | CIENCE.     |       |
|                   | • •   | 3     |         |                      | : BIO 115, BIO 206, CHE 101, PHY 121                |             |       |
|                   |   | •     |         | SCIENCE (            | 3 crs) EAS 163, ENS 101, PHS 120, PHS 137           | •           |       |
| Multicultu        | rai Awareness - 3 credits                       |       |         |                      |   |             |       |
| EDU 310           | Teaching in a Multicultural Society *           | 3     | Cal U   | Admission to         | Teacher Education - must be approved at 48 - 65     | credits     |       |
|                   |   | ٠.    |         | 2.80 GPA ov          | <b>erali</b>  |             |       |
| <u>Values</u> - : | 3 credits                                       |       |         | C or better g        | rades in 6 credits of math                          | ٠.          |       |
| TED 210           | Design & Appropriate Technology *               | 3     | Cal U   |                      | rades in 6 credits of composition/English liteatu   | ire         |       |
|                   |   |       |         |                      | rade in TED 100                                     | •           |       |
| <u>Technolog</u>  | <u>iical Literacy</u> - 6 credits               |       |         | Speech and           |   |             |       |
| TED 302           | Energy & Control Systems *                      | 3     | Cal U   |                      | ct 34, Act 114 and Act 151 clearances               |             |       |
| TED 316           | Structural Design *                             |       |         |                      | exams in Reading, Writing, Math                     |             |       |
|                   |   |       |         |                      | <b>.</b>  |             |       |
| Health & V        | <u>Veliness</u> - 3 credits                     |       |         | Recommenda           | ation for Student Teaching - required 1 semester p  | prior       |       |
| HPE 314           | First Aid & Personal Safety *                   | 3     | Cal U   | Due Jun. 1 fo        | or Fall, Nov. 1 for Spring                          |             |       |
|                   |   |       |         | 3.00 GPA ov          | erall (at time of application & start of student te | aching)     |       |
| <b>Nriting Co</b> | mponent Courses - 2 courses                     |       |         | C or better gr       | rade in each TED course                             |             |       |
| ED 450 and 1      | ED 451 listed below in the Professional Prepara | ition |         | TB test              |   |             |       |
| lock are desig    | nated Upper-Division Writing Component Cours    | Ses.  |         | Pass Praxis          | If TED exam and Fundamental Subjects exam           |             |       |
| _                 | -   |       |         | <b>Current Act 3</b> | 34, 114 & 151 clearances, valid thru student tea    | ching       |       |
| PROFESSI          | ONAL PREPARATION (28 Credits)                   | )     |         |                      | pility insurance policy                             | -           |       |
| EDU 340           | Mainstreaming Exceptional Learners              | •     | Cal U   |                      |   |             |       |
| TED 100           | Introduction to Technology Education            | 3     |         | EXTRA COL            | <u>IRSES</u>  |             |       |
| TED 300           | Assessment & Instruction in TED                 | 3 .   |         | ELC 162              | Free Electives                                      | 26 (        | CAC   |
| TED 450           | Teach Technology in Secondary Sch               | 3     | Cal U   |                      | <del></del>   | '           | •     |
| TED 451           | Teach Technology in Elementary Sch              |       | Cal U   |                      | TED BS SP07   |             |       |
| TED 461           | Technology Education Student Teach              |       | Cal U   |                      |   |             |       |
| TED 462           | Professional Practices in TED                   | 3     | Cal U   |                      |   |             |       |
|                   | <del></del>                                     |       |         |                      |   |             |       |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

| FRESHMAN |        | MAN Semester 1                     |     |        |        | Semester 2                      |     |
|----------|--------|------------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix   | Number | Course                             | Cr. | Prefix | Number | Course                          | Cr. |
| ENG      | 101    | English Composition I              | 3   | ENG    | 102    | English Composition II          | 3   |
| MAT      | 181    | College Algebra                    | 3   | MAT    | 191    | College Trigonometry            | 3   |
| TED      | 105    | Communicating Technical Designs    | 3   | TED    | 111    | Information Systems             | 3   |
| TED      | 100    | Intro to Technology Education      | 3   | TED    | 226    | Apps. & Process Engineer. Mats. | 3   |
| TED      | 126    | Engineer. Materials & Prod. Design | 3   | TED    | 210    | Design & Appropriate Technology | 3   |
| UNI      |        | Firet Year Seminar                 | 1   |        |        |                                 |     |
|          | ·      | Total                              | 16  |        |        | Total                           | 15  |

| SOPHO      | MORE | Semester 3*  |       | *           |                   | ,          | Semester 4**   |             |
|------------|------|--|-------|-------------|-------------------|------------|--|-------------|
| Prefix     |      | Course   |       | Cr.         | Prefix            | Number     |  | Cr.         |
| ITE<br>PSY | 250  | Intro to Automation<br>General Psychology<br>General Education |       | 3<br>3<br>9 | EDU<br>PSY<br>TED | 208<br>300 | Teaching In Multicultural Society Educational Psychology Assessment & Instruction in TED General Education | 3<br>3<br>7 |
|            |      |  | Total | 15          |                   |            | Total  | 16          |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

|   | JUNIOR |                                       | Semester 5                       |     |        |        | Semester 6                       |     |
|---|--------|---------------------------------------|----------------------------------|-----|--------|--------|----------------------------------|-----|
| 4 | Prefix | Number                                | Course                           | Cr. | Prefix | Number |                                  | Cr. |
|   | EDU    | 340                                   | Mainstreaming Exceptional Learn  | 3   | HPE    |        | First Aid & Personal Safety      | 3   |
| 1 | TED    | 302                                   | Energy & Control Systems         | 3   | TED    | 304    | Designs in Bio-Related Tech      | 3 . |
| ı | TED    |                                       | Structural Design                | 3   | TED    | 346    | Digital Communications           | 3   |
| 1 | TED    | 335                                   | Transportation Systems           | 3   |        |        | General Education                | 3   |
|   |        |                                       | Technical/Technological Elective | 3   |        |        | Technical/Technological Elective | 3   |
| Į |        | · · · · · · · · · · · · · · · · · · · | Total                            | 15  |        |        | Total                            | 15  |

| SENIOR |        | Semester 7                       |     |        |        | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|--------|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix | Number |                                 | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461    | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462    | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   |        |        |                                 |     |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |        |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |        |                                 |     |
|        |        |                                  |     |        |        | 7-1-1                           | 40  |
|        |        | Total                            | 15  | !      |        | Total                           | 13  |

Sci & Tech to Technology Education - Bachelor of Science in Education (120 credits)

| Name:   |            | Ent          | ry:               |  | ID:             |             |
|---|------------|--------------|-------------------|--|-----------------|-------------|
| Email:  |            | —>hor        |                   | <del></del>  | ·               |             |
|   | _          |              |                   |  |                 |             |
| GENERAL EDUCATION (50-51 Credits)                             |            | re Cra       | L MAIND           | 120 Cradital   | _               |             |
| Bullding a Sense of Community - 1 credit                      |            | is wid       |                   | (35 Cieuls)  | Cr:             | s Grade     |
| EGR 100 Engineering Seminar *                                 |            |              |                   | Courses:   |                 |             |
| CON 100 Engineering Centilities                               | _          | 1 CCA        |                   | ······································   | 3               | Cal U       |
| Critical Thinking Skills - 3 credits                          |            |              | MAT 116           |  | 4               | CCAC        |
|   | _          |              | EDD 101           |  | 3               | CCAC        |
| TED 426 Manufacturing Enterprise*                             | _ 3        | Cal          |                   |  | 3               |             |
| On  |            |              | TED 126           | Engineering Materials & Product Design   | 3               |             |
| Communication Skills - 6 credits                              |            |              | MET 112           | Engineering Materials  | 4               | CCAC        |
| ENG 101 Composition I *                                       | _ 3        | CCA          | C TED 304         | Designs in Bio-Related Technology  | 3               |             |
| ENG 102 Composition II OR ENG 106 Report Writ*                | _ 3        | CCA          | C TED 335         |  | 3               |             |
|   | •          |              | TED 346           | Digital Communications   | 3               | <del></del> |
| Public Speaking - 3 credits                                   |            |              | TED 436           | Engineering Design & Development   | 3               |             |
|   | 3          | Cal t        | J                 |  |                 | <del></del> |
|   | •          |              | Technical/T       | echnological Electives - 9 credits   |                 |             |
| Mathematics - 3 credits                                       |            |              | EET 103           | Intro to Electronics   | 2               | CCAC        |
| MAT 114 Math for the Technologies 1 *                         | 4          | CCA          |                   | Intro to CAD   |                 | حججيب       |
|   |            |              |                   | Project Fabrication  | — ‡.            |             |
| Natural Sciences - 7-8 credits**                              |            |              | 021110            | FIOJOCK FADINGALION  | — °.            | CCAC        |
| CHM 109 Intro to Chem   | A          | 0040         | ELECTIV           | E (3 Credits)  |                 |             |
| PHY 113 Technical Phayois 1                                   | -          | CCAC         |                   |  |                 |             |
| THE TECHNICAL FILEYOR F                                       |            | CUAL         | SET 105           | Technical Computing  | <sup>3</sup> .  | CCAC        |
| Spaint Salamana Caradia                                       |            |              | _                 |  |                 |             |
| Social Sciences - 6 credits                                   |            |              | Approved To       | schnical/Technological Electives:  |                 |             |
| PSY 101 Intro to Psychology *                                 | 3          | CCAC         | <u> </u>          | 2, 241, 242, THE 141, CSC 120 or above   | <b>:</b>        |             |
| PSY 208 Educational Psychology*                               | 3          | Cal U        | Any CET, EET,     | . GCT, GET, ITE, MMT or TED course not alre  | edy requ        | uired       |
| 1 forms we take a   |            |              | by the major,     | or any other courses approved by the advi  | sor             | u.          |
| Humanities - 3 credits  |            | •            |                   | •  |                 |             |
| # Any Humanites Elective                                      | 3          | CCAC         | *Required co      | ourses that must be completed.   |                 |             |
| ·   |            |              | -                 | · •  |                 |             |
| Fine Arts - 3 credits   |            |              | **Natural Scien   | nce: Complete one 4-credit LAB & one LAB or  | SCIENC          | : <b>=</b>  |
|   | 3          | Call         |                   | BIO 115, BIO 206, CHE 101, PHY 121   | OOIL.10         |             |
|   | ٠.         |              | SCIENCE (3        | crs) EAS 163, ENS 101, PHS 120, PHS  | 127             |             |
| Multicultural Awareness - 3 credits                           |            |              | SOUTH (C          | 510) ENG 100, ENG 101, FNG 120, FNG  | 13/             |             |
| EDITORA Tarablanta and Market Andrews                         | 3          | Call         | Admission to T    | reacher Education-must be approved at 48-6   | =FA-            |             |
| g a managed at the country                                    | ັ -        | Odi U        | 2.80 GPA over     |  | o creans        |             |
| Values - 3 credits  |            | •            |                   |  |                 |             |
| TED 0/0 Design 0 American 1 American 1                        | 2          | <b>6-111</b> | C or better gra   | des in 6 credits of math   |                 |             |
| 222 210 Sociality Appropriate Technology                      | З_         | caru         | C or batter gra   | des in 6 credits of composition/English lite   | eature          |             |
| <u> Sechnological Literacy</u> - 6 credits                    |            |              |                   | de in TED 100  |                 |             |
|   | _          |              | Speech and he     | earing test  |                 |             |
| 7/10 040 04 1 1 1 2   | 3_         | CalU         | Document Act      | 34, Act 114 and Act 151 clearances   |                 |             |
| TED 316 Structural Design *                                   | 3_         | Cal U        | Pass Praxis ex    | ams in Reading, Writing, Math  |                 |             |
| inglish & Walleson & die                                      |            |              |                   | $(\mathbf{r}_{i}, \mathbf{r}_{i}) = (\mathbf{r}_{i}, \mathbf{r}_{i}) + (\mathbf{r}_{i}, \mathbf{r}_{i})$ |                 |             |
| lealth & Wellness - 3 credits                                 |            |              |                   | on for Student Teaching - required 1 semest  | er prior        |             |
| HPE 314 First Aid & Personal Safety *                         | 3 _        | Cal U        | Due Jun. 1 for    | Fall, Nov. 1 for Spring  |                 |             |
| M-141   |            |              |                   | II(at time of application & start of student to  | eaching         | )           |
| Vriting Component Courses - 2 courses                         |            |              | C or better grad  | de in each TED course  | -u.u            | ,           |
| ED 450 and TED 451 listed below in the Professional Preparati | on         |              | TB test           |  |                 |             |
| ock are designated Upper-Division Writing Component Course    | <b>s</b> . |              | Pass Pravis II 7  | TED exam and Fundamental Subjects exa  | 200             |             |
|   |            |              | Current Act 34    | 114 & 151 clearances, valid thru student to  | assi<br>naobiec |             |
| ROFESSIONAL PREPARATION (28 Credits)                          |            |              | \$1 million links | it i + 6: 151 clearances, valid thru student to<br>ly insurance policy   | =aUNING         |             |
| EDU 340 Mainstreaming Exceptional Learners 3                  |            | Cal U        |                   | y made or policy   |                 |             |
| TED 100 Introduction to Technology Education 3                | _          |              | # IF END 400 :-   | Anton Hamman Manager at the second   |                 |             |
| TED 300 Assessment & Instruction in TED 3                     |            | C-1111       | 7                 | taken, Humanities must be a literature.  |                 |             |
| TED 450 Table Table 1   |            | Cal U        |                   |  |                 |             |
| TED ASA Tanak Tankania a ma                                   | _          | Cal U        |                   |  |                 |             |
| TED 464 Technology Columbia Columbia                          |            |              | EXTRA COURS       |  |                 |             |
| TED 460 Destauries I D. 11                                    |            |              | ELC 162 Fi        | ree Electives  | 15 CC           | :AC         |
| 1 ED 462 Professional Practices in TED 3                      | _          | Cal U        |                   | TED BS SP07  |                 |             |

#### Bachelor of Science in Education Degree (123 credits)

Eight Semester Course Sequence

| FRESHMAN |        | Semester 1                         |     |        |        | Semester 2                      |     |  |
|----------|--------|------------------------------------|-----|--------|--------|---------------------------------|-----|--|
| Prefix   | Number | Course                             | Cr. | Prefix | Number | Course                          | Cr. |  |
| ENG      | 101    | English Composition I              | 3   | ENG    | 102    | English Composition II          | 3   |  |
| MAT      | 181    | College Algebra                    | 3   | TAM    | 191    | College Trigonometry            | 3   |  |
| TED      | 105    | Communicating Technical Designs    | 3   | TED    | 111    | Information Systems             | 3   |  |
| TED      | 100    | Intro to Technology Education      | 3   | TED    | 226    | Apps. & Process Engineer. Mats. | 3   |  |
| TED      | 126    | Engineer. Materials & Prod. Design | 3   | TED    | 210    | Design & Appropriate Technology | 3   |  |
| UNI      | 100    | First Year Seminar                 | 1   |        | ·      |                                 |     |  |
|          |        | Total                              | 16  |        |        | Total                           | 15  |  |

| SOPHOMORE |        | MORE   | Semester 3*         | Semester 4** |        |        |                                   |     |
|-----------|--------|--------|---------------------|--------------|--------|--------|-----------------------------------|-----|
| 1         | Prefix | Number | Course              | Cr.          | Prefix | Number | Course                            | Cr. |
|           | ITE    | 250    | Intro to Automation | 3            | EDU    | 310    | Teaching In Multicultural Society | 3   |
| ٠,        | PSY    | 100    | General Psychology  | 3            | PSY    | 208    | Educational Psychology            | 3   |
| ١         |        |        | General Education   | 9            | TED    | 300    | Assessment & Instruction in TED   | 3   |
|           |        |        |                     |              | i      |        | General Education                 | 7   |
| 1         |        |        | • •                 |              | ,      |        | ,                                 |     |
| 1         |        |        |                     |              |        |        |                                   |     |
| •         |        |        | Total               | 15           |        |        | Total                             | 16  |

<sup>\*</sup>Praxis exams should be taken during or immediately following the third semester.

<sup>\*\*</sup>Students should apply for Admission to Teacher Education during the fourth semester.

| ì | JUNIOR |        | Semester 5                       |     |        |        | Semester 6                       |     |
|---|--------|--------|----------------------------------|-----|--------|--------|----------------------------------|-----|
| 4 | Prefix | Number | Course                           | Cr. | Prefix | Number | Course                           | Cr. |
| 1 | EDU    | 340    | Mainstreaming Exceptional Learn  | 3   | HPE    | 314    | First Aid & Personal Safety      | 3   |
|   | TED    | 302    | Energy & Control Systems         | 3   | TED    | 304    | Designs in Bio-Related Tech      | 3   |
| ı | TED    | 316    | Structural Design                | 3   | TED    | 346    | Digital Communications           | 3   |
|   | TED    | 335    | Transportation Systems           | 3   |        |        | General Education                | 3   |
| ı |        |        | Technical/Technological Elective | 3   |        |        | Technical/Technological Elective | 3   |
| ı | ĺ      |        | · ·                              |     |        |        | _                                |     |
| - |        |        | Total                            | 15  |        |        | Total                            | 15  |

| SENIOR | ·      | Semester 7                       |     |        |     | Semester 8                      |     |
|--------|--------|----------------------------------|-----|--------|-----|---------------------------------|-----|
| Prefix | Number | Course                           | Cr. | Prefix |     | Course                          | Cr. |
| TED    | 426    | Manufacturing Enterprise         | 3   | TED    | 461 | Technology Education Stud Teach | 10  |
| TED    | 436    | Engineering Design & Develop     | 3   | TED    | 462 | Prof Practices in Tech Ed       | 3   |
| TED    | 450    | Teach. Tech-Secondary Sch        | 3   |        |     |                                 |     |
| TED    | 500    | Teach. Tech-Elementary Sch       | 3   |        |     |                                 |     |
|        |        | Technical/Technological Elective | 3   |        |     |                                 |     |
|        |        |                                  |     |        |     |                                 |     |
|        |        | Total                            | 15  |        |     | Total                           | 13  |