



**2006-08 Transfer Guide  
for El Paso Community College**



**College of Engineering**

**Bachelor of Science in Civil Engineering (CE)  
Bachelor of Science in Computer Science (CS)  
Bachelor of Science in Industrial Engineering (IE)**

**Bachelor of Science in Mechanical Engineering (MECH)  
Bachelor of Science in Electrical Engineering (EE)  
Bachelor of Science in Metallurgical & Materials Engr (MME)**

The courses listed below can be taken at El Paso Community College in partial fulfillment of UTEP's Bachelor of Science degrees in Engineering and Computer Science and completion of its Core Curriculum requirements. Completion of the entire Core, or blocks within the Core, at EPCC will satisfy completion of the Core or comparable blocks at UTEP. **A maximum of 66 hours may be transferred to UTEP degree programs.** Questions concerning these requirements should be directed to the College of Engineering, 230E Engineering Bldg., 747-5460, or to the department of the major desired.

| ✓  | UTEP Core |                     | UTEP Course Title   | EPCC Equivalent |          | Core |
|--|-----------|---------------------|---|-----------------|----------|------|
| <b>1. Communication (9 cr.)</b>  |           |                     |   |                 |          |      |
| <b>English Composition<sup>1</sup> (6 cr.)</b>   |           |                     | <i>Complete each of the following:</i>                                |                 |          |      |
| ___  | ENGL      | 1311 <sup>2</sup> & | Expository English Composition  | ENGL            | 1301* &  | C    |
| ___  | ENGL      | 1312 <sup>3</sup>   | Research and Critical Writing   | ENGL            | 1302*    | C    |
| <b>Speech (3 cr.)</b>  |           |                     | <i>Complete one of the following:</i>                                 |                 |          |      |
| ___ 1  | COMM      | 1301 <sup>2</sup>   | Public Speaking   | SPCH            | 1315* or | C    |
| ___ 2  | COMM      | 1302                | Business and Professional Communication<br>(for EE, IE MECH majors**) | SPCH            | 1321*    | C    |
| <sup>1</sup> For students admitted on the basis of TOEFL or PAA, ESOL 1311 and 1312 may be substituted when taken at UTEP.<br><sup>2</sup> ENGL/COMM 1611 may be substituted for both the ENGL 1311 and COMM 1301.<br><sup>3</sup> ENGL 1313 may be substituted for ENGL 1312. |           |                     |   |                 |          |      |
| <b>2. Mathematics</b>  |           |                     |   |                 |          |      |
| <i>Complete the following:</i>   |           |                     |   |                 |          |      |
| ___  | MATH      | 1508                | Precalculus   | MATH            | 2412*    | C    |
| ___  | MATH      | 1411                | Calculus I (CE, EE, IE, MECH, MME)                                    | MATH            | 2413*    | C    |
| ___  | MATH      | 1312                | Calculus II (CE, EE, IE, MECH, MME)                                   | MATH            | 2314*    | -    |
| ___  | MATH      | 2313                | Calculus III (EE, MECH, MME)  | MATH            | 2315*    | -    |
| ___  | MATH      | 2300                | Discrete Mathematics (for CS)   | MATH            | 2305*    | -    |
| ___  | MATH      | 2326                | Differential Equations (for CE, EE, IE, MECH, MME)                    | MATH            | 2320*    | -    |
| ___  | MATH      | 3323                | Matrix Algebra (for CS, EE, IE, MME)                                  | MATH            | 2318*    | FOS  |
| <b>3. Natural Sciences</b>   |           |                     |   |                 |          |      |
| <i>Complete the following:</i>   |           |                     |   |                 |          |      |
| ___  | PHYS      | 2421                | Fields and Waves (for CE,CS,EE, IE, MECH, MME)                        | PHYS            | 2426*    | C    |
| <b>CE, IE, and MECH majors complete two of the three options below:</b>  |           |                     |   |                 |          |      |
| ___ 1  | PHYS      | 2420                | Introductory Mechanics (CE)   | PHYS            | 2425*    | C    |
| ___ 2  | CHEM      | 1305 &              | General Chemistry I   | CHEM            | 1411*    | C    |
| ___  | CHEM      | 1105                | Laboratory for CHEM 1305  |                 |          |      |
| ___ 3  | CHEM      | 1306 &              | General Chemistry II  | CHEM            | 1412*    | C    |
| ___  | CHEM      | 1106                | Laboratory for CHEM 1306  |                 |          |      |
| <b>CS, EE, and MME majors complete the following as indicated:</b>   |           |                     |   |                 |          |      |
| ___  | CHEM      | 1305                | General Chemistry I (for EE, MME)                                     | CHEM            | 1411*    | C    |
| ___  | CHEM      | 1105                | Laboratory for CHEM 1305 (for MME)                                    |                 |          |      |
| ___  | CHEM      | 1306                | General Chemistry II (for MME)  | CHEM            | 1412*    | C    |
| ___  | CHEM      | 1106                | Laboratory for CHEM 1306 (for MME)                                    |                 |          |      |
| ___  | PHYS      | 2420                | Introductory Mechanics (for CS, EE)                                   | PHYS            | 2425*    | C    |
| <b>EE majors complete one of the following:</b>  |           |                     |   |                 |          |      |
| ___ 1  | BIOL      | 1305 or             | General Biology   | BIOL            | 1406*    | C    |
| ___ 2  | CHEM      | 1306                | General Chemistry II  | CHEM            | 1412*    | C    |

| ✓   | UTEP Core |                | UTEP Course Title  | EPCC Equivalent |         | Core       |
|---|-----------|----------------|--|-----------------|---------|------------|
| <b>4. Humanities (3 cr.)</b>  |           |                |  |                 |         |            |
| <i>Complete one of the following:</i>   |           |                |  |                 |         |            |
| ___ 1   | ENGL      | 2311           | English Literature (IE)  | ENGL            | 2322*   | C          |
| ___ 2   | ENGL      | 2312           | English Literature (IE)  | ENGL            | 2323*   | C          |
| ___ 3   | ENGL      | 2313           | Introduction to American Fiction (IE)                            | ENGL            | 2342*   | C          |
| ___ 4   | ENGL      | 2314           | Introduction to American Drama (IE)                              | ENGL            | 2343*   | C          |
| ___ 5   | ENGL      | 2318           | Introduction to American Poetry (IE)                             | ENGL            | 2372    | -          |
| ___ 6   | HIST      | 2301           | World History to 1500  | HIST            | 2321*   | -          |
| ___ 7   | HIST      | 2302           | World History since 1500   | HIST            | 2322*   | -          |
| ___ 8   | PHIL      | 1301           | Introduction to Philosophy                                       | PHIL            | 1301*   | C          |
| ___ 9   | PHIL      | 2306           | Ethics: Phil Perspective on Human Cond & Values                  | PHIL            | 2306*   | C          |
| <b>IE Majors: select one course from ENGL 2311, 2312, 2313, 2314 or 2318.</b> |           |                |  |                 |         |            |
| <b>5. Visual and Performing Arts (3 cr.)</b>                                  |           |                |  |                 |         |            |
| <i>Complete one of the following:</i>   |           |                |  |                 |         |            |
| ___ 1   | ART       | 1300           | Art Appreciation   | ARTS            | 1301*   | C          |
| ___ 2   | ARTH      | 1305           | Art History of the Western World I                               | ARTS            | 1303*   | C          |
| ___ 3   | ARTH      | 1306           | Art History of the Western World II                              | ARTS            | 1304*   | C          |
| ___ 4   | DANC      | 1304           | Dance Appreciation   | DANC            | 2303    | C          |
| ___ 5   | MUSL      | 1321           | Introduction to Music History                                    | UTEP            | UTEP    | C          |
| ___ 6   | MUSL      | 1324           | Music Appreciation   | MUSI            | 1306*   | C          |
| ___ 7   | MUSL      | 1327           | Jazz to Rock   | MUSI            | 1310*   | C          |
| ___ 8   | THEA      | 1313           | Introduction to Theatre  | DRAM            | 1310*   | C          |
| ___ 9   | THEA      | 1390           | Introduction to the Art of the Motion Picture                    | DRAM            | 2366*   | C          |
| <b>6. United States History (6 cr.)</b>                                       |           |                |  |                 |         |            |
| <i>Complete each of the following:</i>  |           |                |  |                 |         |            |
| ___   | HIST      | 1301 &         | History of the U.S. to 1865                                      | HIST            | 1301* & | C          |
| ___   | HIST      | 1302           | History of the U.S. since 1865                                   | HIST            | 1302*   | C          |
| <b>7. Political Science (6 cr.)</b>   |           |                |  |                 |         |            |
| <i>Complete each of the following:</i>  |           |                |  |                 |         |            |
| ___   | POLS      | 2310 &         | Introduction to Politics   | GOVT            | 2305* & | C          |
| ___   | POLS      | 2311           | American Government and Politics                                 | GOVT            | 2306*   | C          |
| <b>8. Social and Behavioral Sciences (3 cr.)</b>                              |           |                |  |                 |         |            |
| <i>Complete one of the following:</i>   |           |                |  |                 |         |            |
| ___ 1   | ANTH      | 1301           | Intro to Physical Anthropology & Archaeology                     | ANTH            | 2346*   | C          |
| ___ 2   | ANTH      | 1302           | Introduction to Cultural Anthropology                            | ANTH            | 2351*   | -          |
| ___ 3   | ECON      | 1301           | Basic Issues in Economics  | ECON            | 1301*   | C          |
| ___ 4   | ECON      | 2303           | Principles of Economics I  | ECON            | 2301*   | C          |
| ___ 5   | ECON      | 2304           | Principles of Economics II (EE)                                  | ECON            | 2302*   | C          |
| ___ 6   | GEOG      | 1310           | Cultural Geography   | GEOG            | 1302*   | -          |
| ___ 7   | PSYC      | 1301           | Introduction to Psychology                                       | PSYC            | 2301*   | C          |
| ___ 8   | SOCI      | 1301           | Introduction to Sociology  | SOCI            | 1301*   | C          |
| <b>9. Institutionally Designated Option (3 cr.)</b>                           |           |                |  |                 |         |            |
| <i>Complete one of the following:</i>   |           |                |  |                 |         |            |
| ___ 1   | UNIV      | 1301           | Seminar in Critical Inquiry                                      | EDUC            | 1300*   | C          |
| ___ 2   | UNIV      | 2350           | Interdisciplinary Technology and Society                         | UTEP            | UTEP    |            |
| <b>10. Additional Required Engineering Courses Available at EPCC</b>          |           |                |  |                 |         |            |
| ___   | BE        | 1301 &<br>1101 | Introduction to Engineering &<br>Introduction to Engineering Lab | ENGR            | 1401    |            |
| ___   | BE        | 1205           | Graphic Fund Engr Design (for CE, IE, MECH, MME)                 | ENGR            | 1304*   | -          |
| ___   | BE        | 2338           | Mechanics II (for CE, IE, MECH, MME)                             | ENGR            | 2302*   | <b>FOS</b> |
| ___   | BE        | 2377           | Electrical Circuits & Motors (for CE, IE, MECH, MME)             | ENGR            | 2305*   | <b>FOS</b> |
| ___   | BE        | 2434           | Mechanics I  | ENGR            | 2471    |            |
| ___   | IE        | 3126           | Industrial Engineering Laboratory (for IE, MECH)                 | MCHN            | 2171    |            |

\* Indicates TCCN (Texas Common Course Number)

**FOS = Engineering Field of Study Courses**

**All courses used to satisfy the core curriculum must be completed with a "C" or better.**

\*\* Majors: CE = Civil CS = Computer Science EE = Electrical IE = Industrial MECH = Mechanical MME = Metallurgical & Materials

## **ADDITIONAL COLLEGE OF ENGINEERING NOTES**

- **TRANSFER HOURS:** A student may transfer a maximum of 66 semester hours, limited to lower-division courses, from two-year junior or community colleges. A maximum of 100 semester hours of courses is transferable from accredited U.S. colleges and universities.
- **ACCREDITATION:** Transfer credit for engineering courses is restricted to ABET – accredited curricula or is awarded on the basis of departmental recommendation.
- **COMPETENCY EXAMS:** Transfer students may be required to take competency exams and/or take specified courses that the department feels they must have in order to establish the quality of their degree.
- **UPPER DIVISION COURSES:** Credit for upper division engineering courses will be given only on the basis of departmental recommendation.
- **SECONDARY ADMISSIONS REQUIREMENTS:** The academic records of all transfer students are reviewed by the College of Engineering to determine eligibility for admission into an engineering program. International students must meet the additional requirement of an overall minimum GPA of 3.0 in mathematics, chemistry, physics, and engineering for all institutions attended.
- **TRANSFER CREDIT:** that is to be applied toward undergraduate engineering degree requirements must be approved by the Dean of Engineering. Transfer credit evaluation should be completed when the student transfers to the College of before completion of the lower-division requirements.

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