



**2017-2018 Transfer Guide  
for El Paso Community College**

College of Engineering

**ENGR - ISE**

**BACHELOR OF SCIENCE IN INDUSTRIAL AND SYSTEMS ENGINEERING**

The courses listed below can be taken at El Paso Community College in partial fulfillment of UTEP's Bachelor of Science degree in Industrial Engineering 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. Courses highlighted below, appear on the UTEP degree plan. Questions concerning these requirements should be directed to either [epaso@utep.edu](mailto:epaso@utep.edu) or the E-PASO Office at (915) 747-5460 or to the College of Engineering at (915) 747-6444.

EPCC Course			EPCC Course Title	UTEP Equivalent		UTEP Core
<b>1. Communication (6 credits)</b>						
<b>Complete the following:</b>						
and	ENGL	1301	Expository English Composition	RWS	1301	✓
	SPCH	1321	Organizational & Professional Communication	COMM	1302	✓ <sup>1</sup>
<i><sup>1</sup> counts towards block 9 (Component Area Option) for the UTEP core.</i>						
<b>2. Mathematics (3 credits)</b>						
<b>Complete the following:</b>						
	MATH	1314 2412	Pre-calculus I Pre-calculus I	MATH	1508	✓
	MATH	2413	Calculus I	MATH	1411	✓
	MATH	2314	Calculus II	MATH	1312	✓
	MATH	2315	Calculus III	MATH	2313	✓
	MATH	2320	Differential Equations	MATH	2326	✓
<i>Both MATH 1314 &amp; MATH 2412 from EPCC must be taken to receive MATH 1508 credit at UTEP.</i>						
<b>3. &amp; 10. Life and Physical Sciences &amp; Lab Science Course (7-8 credits)</b>						
<b>Complete the following sequence:</b>						
and	PHYS	2325	Engineering Physics I	PHYS	2420	✓
	PHYS	2125	Engineering Physics Lab I			
	CHEM	1311	General Chemistry I	CHEM	1305	✓
	CHEM	1111	General Chemistry I Lab	CHEM	1105	✓
<i>PHYS 2420, CHEM 1305 &amp; 1105 (UTEP equivalence as shown above) are required for degree completion of an Industrial Engineering Degree.</i>						
<b>4. Language, Philosophy and Culture (3 credits)</b>						
<b>Complete one from the following:</b>						
	ARCH	1301	Architectural History I	ART	13TR	
	ARTS	1303	Pre-Renaissance Art History	ARTH	1305	✓ <sup>2</sup>
	ARTS	1304	Renaissance & Modern Art History	ARTH	1306	✓ <sup>3</sup>
	COMM	1307	Mass Media and Society	COMM	2372	
	ENGL	2322	British Literature I	ENGL	2311	✓
	ENGL	2323	British Literature II	ENGL	2312	✓
	ENGL	2332	World Literature I	ENGL	23TR	
	ENGL	2333	World Literature II	ENGL	23TR	
	ENGL	2342	Introduction to Novel & Short Story	ENGL	2313	✓
	ENGL	2343	Introduction to Drama	ENGL	2314	✓
	ENGL	2351	Chicana/o Literature	ENGL	23TR	
	HIST	2321	World History to 1648	HIST	2301	✓
	HIST	2322	World History 1648 to Present	HIST	2302	✓

EPCC Course		EPCC Course Title		UTEP Equivalent		UTEP Core
	MUSI	1307	Intro to Music History	MUSL	1321	✓ <sup>4</sup>
	PHIL	1301	Introduction to Philosophy	PHIL	1301	✓
	PHIL	2303	Formal Logic	PHIL	1304	
	PHIL	2306	Ethics	PHIL	2306	✓
	SPAN	2311	Intrm Span I Non-Native Speakers	SPAN	2301	
	SPAN	2313	Intrm Span I Spanish Speakers	SPAN	2303	
	SPAN	2315	Intrm Span II Spanish Speakers	SPAN	2304	
<sup>2</sup> counts towards block 5 (Creative Arts) for the UTEP core.						
<sup>3</sup> counts towards block 5 (Creative Arts) for the UTEP core.						
<sup>4</sup> counts towards block 5 (Creative Arts) for the UTEP core.						
<b>PHIL 2306</b> (taken at EPCC) is required for completion of an Industrial Engineering Degree. This course will satisfy both the Core Curriculum requirement as well as the degree plan requirement.						
<b>5. Creative Arts (3 credits)</b>						
<b>Complete one from the following:</b>						
	ARTS	1301	Art Appreciation	ART	1300	✓
	COMM	2366	Introduction to Film	FILM	1390	✓
	DANC	2303	Dance Appreciation	DANC	1304	✓
	DRAM	1310	Introduction to Theatre	THEA	1313	✓
	MUSI	1306	Music Appreciation	MUSL	1324	✓
	MUSI	1310	Jazz to Rock	MUSL	1327	✓
<b>6. American History (6 credits)</b>						
<b>Complete the following:</b>						
	HIST	1301	History of the United States to 1865	HIST	1301	✓
	HIST	1302	History of the United States since 1865	HIST	1302	✓
<b>7. Government/Political Science (6 credits)</b>						
<b>Complete both at the same institution:</b>						
	GOVT	2305/ 2306	American Government and Politics/State and Local Government	POLS	2310/ 2311	✓
<i>It is recommended that both Political Science courses be completed at EPCC then transferred to UTEP or both courses be completed at UTEP.</i>						
<b>8. Social &amp; Behavioral Sciences (3 credits)</b>						
<b>Complete one from the following:</b>						
	ANTH	2346	Intro to Physical Anthropology & Archaeology	ANTH	1301	✓
	ECON	1301	Basic Economic Issues	ECON	1301	
	ECON	2301	Principles of Macroeconomics	ECON	2303	✓
	ECON	2302	Principles of Microeconomics	ECON	2304	✓
	PSYC	2301	Introduction to Psychology	PSYC	1301	✓
	PSYC	2306	Human Sexuality	PSYC	2305	
	PSYC	2314	Human Growth and Development	PSYC	2310	
	SOCI	1301	Introductory Sociology	SOCI	1301	✓
	SOCI	2301	Socio Marriage/the family	SOCI	2315	
<b>9. Component Area Option (6 credits)</b>						
<b>Complete the following:</b>						
and	EDUC	1300	Mastering Academic Excellence	UNIV	1301	✓
	ENGL	1302	Research Writing and Literary Analysis	RSW	1302	✓ <sup>5</sup>
<sup>5</sup> counts towards block 1 (Communication) for the UTEP core.						
<b>Additional Courses Required for the Engineering Degree in Industrial Engineering at EPCC/UTEP</b>						
	ENGR	1201	Introduction to Engineering	ENGR	12TR <sup>6</sup>	
	ENGR	1204	Engineering Graphics	BE	1205 <sup>6</sup>	

ENGR	2301	Mechanics I: Statics	BE	2434 <sup>7</sup>
ENGR	2305	Electromechanical Systems	BE	2377 <sup>8</sup>
ENGR	2308	Economics for Engineers and Scientist	CE	2326 <sup>9</sup>
ENGR	2332	Mechanics of Materials	BE	2303 <sup>10</sup>

<sup>6</sup>BE 1205 will be substituted for MECH 1305 if (ENGR 1401 or ENGR 1201) and ENGR 1204 are both taken at EPCC as listed in the BSME degree plan at UTEP.

<sup>7</sup>BE 2434 counts as IE 2315 as listed in the BSIE degree plan at UTEP.

<sup>8</sup>BE 2377 counts as IE 2377 as listed in the BSIE degree plan at UTEP.

<sup>9</sup>CE 2326 will be substituted for IE 2326 which is required for completion of the BSIE Degree.

<sup>10</sup>BE 2303 counts as IE 2303 as listed in the BSIE degree plan at UTEP.

For the most current version of this document, visit [www.utep.edu/admit](http://www.utep.edu/admit)

### **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 98 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