

**BUTLER COUNTY COMMUNITY COLLEGE
TRANSFER PROGRAM TO THE UNIVERSITY OF KANSAS
B.S. IN PETROLEUM ENGINEERING**

Number to call at KU for advising: (785) 864-4965

Website: <http://www.cpe.engr.ku.edu/>

Timely completion of prerequisites is imperative due to tight sequencing of major courses. Consult the KU catalog and seek KU advising early.

Sixty-four credit hours may be transferred to KU from community colleges. Transfer students must have at least a 2.5 GPA and proof of competency in Calculus.

KU Course Requirements

Butler County Course Equivalents

| ENGLISH (9 hours) | | | |
|---|---|---|---|
| ENGL 101 COMPOSITION | 3 | EG 100 ENGLISH COMP I W/ REVIEW | 5 |
| | | OR | |
| | | EG 101 ENGLISH COMPOSITION I | 3 |
| ENGL 102 CRITICAL READING & WRITING | 3 | EG 102 ENGLISH COMPOSITION II | 3 |
| Plus a third English course (advanced English course designated H) | 3 | Select ONE course from the following list: | |
| | | LT 201 INTRO TO LITERATURE I | 3 |
| | | LT 204 INTRO TO POETRY | 3 |
| | | LT 205 INTRO TO SHORT STORY | 3 |
| | | LT 211 BRITISH LITERATURE I (ORIGINS-1784) | 3 |
| | | LT 212 BRITISH LITERATURE II (1784-PRES) | 3 |
| | | LT 215 AMERICAN LITERATURE I (COL-1865) | 3 |
| | | LT 216 AMERICAN LITERATURE II (1865-PRES) | 3 |
| | | LT 218 SHAKESPEARE | 3 |

HUMANITIES AND SOCIAL SCIENCES (12 hours)

At least one course must be from Humanities and at least one course must be from Social Sciences.

At least two courses must be from the same department in either Humanities or Social Sciences.

| HUMANITIES | | | |
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| | | EG 104 CREATIVE WRITING | 3 |
| | | LT 201 INTRO TO LITERATURE I | 3 |
| | | LT 204 INTRO TO POETRY | 3 |
| | | LT 205 INTRO TO SHORT STORY | 3 |
| | | LT 211 BRITISH LITERATURE I (ORIGINS-1784) | 3 |
| | | LT 212 BRITISH LITERATURE II (1784-PRES) | 3 |
| | | LT 215 AMERICAN LITERATURE I (COL-1865) | 3 |
| | | LT 216 AMERICAN LITERATURE II (1865-PRES) | 3 |
| | | LT 218 SHAKESPEARE | 3 |
| | | LIT 260 CHILDREN'S LITERATURE | 3 |
| | | HS 121 HISTORY OF WESTERN CIV I | 3 |
| | | HS 122 HISTORY OF WESTERN CIV II | 3 |
| | | HS 131 U.S. HISTORY I | 3 |
| | | HS 132 U.S. HISTORY II | 3 |
| | | AR 100 ART APPRECIATION | 3 |
| | | HS 123 HISTORY OF WESTERN CIV III | 3 |
| | | HS 253 SELECTED TOPICS | 3 |
| | | HU 100 HUM: ANCIENT TO MEDIEVAL | 3 |
| | | HU 101 HUM: RENAISSANCE TO MODERN | 3 |
| | | HU 110 HUMANITIES THROUGH THE ARTS | 3 |
| | | MU 100 MUSIC APPRECIATION | 3 |
| | | MU 202 INTRO TO CONTEMPORARY MUSIC | 3 |
| | | MU 221 MUSIC HISTORY I | 3 |
| | | MU 222 MUSIC HISTORY II | 3 |
| | | MU 224 INTRO TO MUSIC HISTORY & LIT | 3 |
| | | PL 290 PHILOSOPHY I | 3 |
| | | PL 291 ETHICS | 3 |

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| | | RG 190 NEW TESTAMENT | 3 |
| | | RG 191 OLD TESTAMENT | 3 |
| | | RG 210 COMPARATIVE RELIGIONS | 3 |
| | | TA 120 HISTORY OF AMERICAN CINEMA | 3 |
| | | TA 206 INTRO TO THEATRE ART | 3 |
| SOCIAL SCIENCES | | | |
| | | BS 106 INTRO TO ANTHROPOLOGY | 3 |
| | | EC 200 PRINCIPLES OF MICROECONOMICS | 3 |
| | | EC 201 PRINCIPLES OF MACROECONOMICS | 3 |
| | | SC 120 PRINCIPLES OF GEOGRAPHY | 3 |
| | | AJ 116 JUVENILE DELINQUENCY & JUSTICE | 3 |
| | | BS 126 GERONTOLOGY | 3 |
| | | BS 210 MARRIAGE & FAMILY | 3 |
| | | BS 260 HUMAN GROWTH & DEVELOPMENT | 3 |
| | | BS 270 CHILD PSYCHOLOGY | 3 |
| | | PO 141 AMERICAN FEDERAL GOVERNMENT | 3 |
| | | PO 201 INTERNATIONAL RELATIONS | 3 |
| | | BS 103 HUMAN SEXUALITY | 3 |
| | | BS 160 GENERAL PSYCHOLOGY | 3 |
| | | BS 212 ABNORMAL PSYCHOLOGY | 3 |
| | | AJ 102 INTRO TO ADMIN OF JUSTICE | 3 |
| | | AJ 109 INTRO TO CORRECTIONS | 3 |
| | | AJ 117 CRIMINAL BEHAVIOR | 3 |
| | | AJ 204 CRIMINAL LAW | 3 |
| | | AJ 212 CRIMINOLOGY | 3 |
| | | AJ 213 CRIMINAL LAW & EVIDENCE | 3 |
| | | BS 105 SOCIOLOGY | 3 |
| | | BS 107 WOMEN & SOCIETY | 3 |
| | | BS 110 CONTEMP SOCIAL PROBLEMS | 3 |
| | | BS 220 MINORITY STUDIES | 3 |
| | | BS 222 DEALING WITH DIVERSITY | 3 |

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| MATHEMATICS (15-18 hours) | | | |
| MATH 121 CALCULUS I | 5 | MA 152 CALC II W/ ANALYTIC GEOMETRY | 5 |
| MATH 122 CALCULUS II | 5 | MA 253 Calc 3 w/A Geometry | 5 |
| One of the following options | | | |
| OPTION A (8 hours) | | | |
| MATH 223 VECTOR CALCULUS | 3 | NO EQUIVALENT | |
| MATH 290 ELEMENTARY LINEAR ALGEBRA | 2 | NO EQUIVALENT | |
| MATH 320 ELEM DIFFERENTL EQUATIONS | 3 | NO EQUIVALENT | |
| OPTION B (8 hours) | | | |
| MATH 220 APPLIED DIFF'RENL EQUATIONS | 3 | MA 260 DIFFERENTIAL EQUATIONS | 3 |
| MATH 290 ELEM. LINEAR ALGEBRA | 2 | | |
| Mathematics elective numbered above Math 124, except for Math 320 | 3 | NO EQUIVALENT | |

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| NATURAL SCIENCES | | | |
| BASIC SCIENCES (18 hours) Required for both Chemical and Petroleum Engineering Students | | | |
| CHEM 184 FOUNDATIONS OF CHEMISTRY I | 5 | CH 110 COLLEGE CHEMISTRY I | 5 |
| CHEM 188 FOUNDATIONS OF CHEMISTRY II | 5 | CH 115 COLLEGE CHEMISTRY II | 5 |
| PHSX 211 GENERAL PHYSICS I | 4 | PH 251 PHYSICS I | 5 |
| PHSX 212 GENERAL PHYSICS II | 4 | PH 252 PHYSICS II | 5 |
| CHEM 622 FUNDMNTLS OF ORGANIC CHEM | 3 | NO EQUIVALENT | |
| GEOL 101 INTRO TO GEOLOGY AND | 3 | PS 102 PHYSICAL GEOLOGY | 4 |
| GEOL 103 GEOLOGY FUNDAMENTALS LAB | 2 | Included in above class | |
| GEOL 331 SEDIMENT & SURFACE PROCESS | 4 | NO EQUIVALENT | |
| GEOL 535 PETROLM & SUBSURFACE GEOL | 4 | NO EQUIVALENT | |
| Basic science or engineering science elective | 3 | Select ONE course from the following list: | |

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| | | BI 110 GENERAL BIOLOGY | 5 |
| | | BI 120 MAJORS BIOLOGY I (ANIMAL) | 5 |
| | | BI 130 MAJORS BIOLOGY II (PLANT) | 5 |
| | | BI 226 ANATOMY & PHYSLGY W/ REVIEW I | 4 |
| | | BI 227 ANATOMY & PHYSLGY W/ REVIEW II | 4 |
| | | BI 240 ANATOMY & PHYSIOLOGY | 5 |
| | | BI 250 MICROBIOLOGY | 5 |
| | | CH 230 GENERAL ORGANIC CHEMISTRY | 5 |
| | | CH 245 ORGANIC CHEMISTRY II | 5 |
| | | EV 150 ENVIRONMENTAL ISSUES | 3 |
| | | PH 103 DESCRIPTIVE ASTRONOMY | 4 |

| ENGINEERING | | | |
|---|---|----------------|---|
| C&PE 121 INTRO TO COMPUTERS IN ENGR | 3 | NO EQUIVALENT | |
| C&PE 211 MATERIAL & ENERGY BALANCES | 3 | NO EQUIVALENT | |
| C&PE 221 BASIC ENGR THERMODYNAMICS | 3 | NO EQUIVALENT | |
| Engineering Science Electives (9 hours) | | | |
| C E 201 STATICS | 2 | EN 260 STATICS | 3 |
| EECS 315 ELCTRCL CIRCUITS & MACHINES | 3 | NO EQUIVALENT | |
| C E 311 STRENGTH OF MATERIALS | 4 | NO EQUIVALENT | |

NOTE: In order to graduate in four years, a student must transfer to KU after one year.

NOTE: Pass/Fail policy. Only courses used to fulfill English, Humanities or Social Science requirements will be accepted with a "P" grade. The requirements listed above are subject to annual change.