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**Dual Degree Program  
*BS Physics   
BS Civil Engineering***

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| **Millikin—Fall Semester 1** | **Hrs** |  | **Millikin—Spring Semester 1** | **Hrs** |  | **Millikin—Summer Semester 1** | **Hrs** |
| MA 140 Calculus I | 4 |  | MA 240 Calculus II | 4 |  |  |  |
| IN 140 University Seminar | 3 |  | Humanities in the United States | 3 |  |  |  |
| EN 181 University Writing | 3 |  | ICS/Historical Studies | 3 |  |  |  |
| CH 121/151 General Chemistry with Lab | 4 |  | PY 152/172 University Physics II | 4 |  |  |  |
| PY 151/171 University Physics I | 4 |  | BI 105 Ecology and Evolution | 3 |  |  |  |

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| **Millikin—Fall Semester 2** | **Hrs** |  | **Millikin—Spring Semester 2** | **Hrs** |  | **Millikin—Summer Semester 2** | **Hrs** |
| PY 262 Experimental Physics I | 4 |  | PY 362 Experimental Physics II | 4 |  |  |  |
| ICS | 3 |  | Social Sciences in the United States | 3 |  |  |  |
| MA 340 Calculus III | 3 |  | MA 305 Differential Equations | 3 |  |  |  |
| MA 208 Discrete Math | 3 |  | CO 200 Public Speaking | 3 |  |  |  |
| EN 281 Writing in the Disciplines | 3 |  | PY 201 Statics | 3 |  |  |  |

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| **Millikin —Fall Semester 3** | **Hrs** |  | **Millikin —Spring Semester 3** | **Hrs** |  | **UMKC—Summer Semester 3** | **Hrs** |
| PY 303 Physical Chemistry | 3 |  | Creative Arts | 3 |  | CE 276 Strength of Materials\* | 3 |
| Global Issues | 3 |  | MA 303 Linear Algebra | 3 |  |  |  |
| PY 253 Modern Physics | 4 |  | PY 325 Mathematical Physics | 3 |  |  |  |
| CS 135 Intro to Computer Science | 3 |  | MA 313 Numerical Analysis | 3 |  |  |  |
| PY 352 Classical Dynamics | 4 |  | Literature | 3 |  |  |  |

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| **UMKC—Fall Semester 4** | **Hrs** |  | **UMKC—Spring Semester 4** | **Hrs** |  | **UMKC—Summer Semester 4** | **Hrs** |
| CE 335 Soil Mechanics | 3 |  | CE 378WI Civil Engineering Materials | 3 |  |  |  |
| ME 351 Fluid Mechanics | 3 |  | CE 497 Engineering Hydrology | 3 |  |  |  |
| CE 321 Structural Analysis | 4 |  | CE 323 Structural Steel Design | 3 |  |  |  |
| CE 467 Construction Management | 3 |  | CE 481 Intro to Transportation Engineering | 3 |  |  |  |
| CE 111 First Year Cornerstone | 1 |  | ME 130 Engineering Graphics | 3 |  |  |  |
| CE 113 Engineering Measurements | 1 |  | CE 190 Special Topics | 1 |  |  |  |

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| **UMKC—Fall Semester 5** | **Hrs** |  | **UMKC—Spring Semester 5** | **Hrs** |  | **UMKC—Summer Semester 1** | **Hrs** |
| CE 411 System Design I | 3 |  | CE 412 System Design II | 3 |  |  |  |
| CE 432 Foundation Engineering | 3 |  | CE 342 Intro to Environmental Engineering | 3 |  |  |  |
| CE 422WI Reinforced Concrete | 3 |  | CE Elective | 3 |  |  |  |
| CE Elective | 3 |  |  |  |  |  |  |
| CE Elective | 3 |  |  |  |  |  |  |

\*If UMKC is not able to offer Strength of Materials in the summer, students can take an equivalent course at Metropolitan Community College of Kansas City.

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