

**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.

Millikin University
1184 W. Main St · Decatur IL
800-373-7733 · jstickles@millikin.edu · millikin.edu

UMKC School of Science & Engineering · SS&C Student Services Center
336 Flarsheim Hall · 5110 Rockhill Road
816-235-2399 · sse@umkc.edu · sse.umkc.edu