

**Dual Degree Program
*BS Mathematics
BS Electrical/Computer 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 |  | Creative Arts | 3 |  |  |  |
| CO 200 Public Speaking | 3 |  | Social Sciences in the United States | 3 |  |  |  |

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| **Millikin—Fall Semester 2** | **Hrs** |  | **Millikin—Spring Semester 2** | **Hrs** |  | **Millikin—Summer Semester 2** | **Hrs** |
| PY 151/171 University Physics I | 4 |  | PY 152/172 University Physics II | 4 |  |  |  |
| CS 135 Intro to Comp Sci | 3 |  | MA 313 Numerical Analysis | 3 |  |  |  |
| MA 340 Calculus III | 3 |  | MA 305 Differential Equations | 3 |  |  |  |
| MA 208 Discrete Math | 3 |  | ICS | 3 |  |  |  |
| EN 281 Writing in the Disciplines | 3 |  | MA 303 Linear Algebra | 3 |  |  |  |

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| **Millikin —Fall Semester 3** | **Hrs** |  | **UMKC —Spring Semester 3** | **Hrs** |  | **UMKC—Summer Semester 3** | **Hrs** |
| PY 262 Experimental Physics | 3 |  | ECE 216 Engineering Computation\* | 4 |  |  |  |
| Global Issues/Literature | 3 |  | ECE 226/227 Logic Design/Lab | 4 |  |  |  |
| MA 304 Probability | 3 |  | ECE 276/277 Circuit Theory I/Lab | 4 |  |  |  |
| MA 230 Reg Analysis/Time Series | 3 |  | ECE 341R Applied Engineering Analysis II | 3 |  |  |  |
| CS 360 C++ Programming | 3 |  | ME 130 Engineering Graphics\* | 3 |  |  |  |

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| **UMKC—Fall Semester 4** | **Hrs** |  | **UMKC—Spring Semester 4** | **Hrs** |  | **UMKC—Summer Semester 4** | **Hrs** |
| ECE 334 Semiconductors & Devices | 3 |  | ECE 302/303 Electromagnetic Waves& Fields/Lab | 4 |  |  |  |
| ECE 376/377 Circuit Theory II/Lab | 4 |  | ECE 330/331 Electronic Circuits/Lab | 4 |  |  |  |
| ECE 380 Signals & Systems/Lab | 4 |  | ECE 428R/429 Embedded Systems/Lab | 4 |  |  |  |
| ECE 426/427 Microcomputer Architecture/Lab | 4 |  | ECE 466 Power Systems | 3 |  |  |  |

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| **UMKC—Fall Semester 5** | **Hrs** |  | **UMKC—Spring Semester 5** | **Hrs** |  | **UMKC—Summer Semester 1** | **Hrs** |
| ECE 358 OR ECE 474 | 3 |  | CS 304 Ethics & Professionalism | 3 |  |  |  |
| ECE 402 Senior Design I | 3 |  | ECE 228/229 Computer Design/Lab | 4 |  |  |  |
| ECE 416 Neural & Adaptive System | 3 |  | ECE 403 Senior Design II | 2 |  |  |  |
| ECE Elective (400 level) | 3 |  |  |  |  |  |  |
| ECE Elective (400 level) | 3 |  |  |  |  |  |  |

\*Students can take either ME 130 or ECE 216 in the UMKC Summer Semester 3 term.

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