

| Cottery College—Fall Semester 1    |   | Hrs                                     | Cottery College—Spring Semester 1 |  | Hrs | Cottery College—Summer Semester 1 |  | Hrs |
|------------------------------------|---|---|-----------------------------------|--|-----|-----------------------------------|--|-----|
| FWS 101 First Year Writing Seminar | 3 | WRI 102 College Writing                 | 3                                 |  |     |                                   |  |     |
| MATH 210 Calculus I                | 4 | MAT 220 Calculus II                     | 4                                 |  |     |                                   |  |     |
| CHE 210/211 General Chemistry I    | 5 | Women's/Gender/Sexuality Studies Course | 3                                 |  |     |                                   |  |     |
| Physical Activity Course           | 1 | Humanities Course                       | 3                                 |  |     |                                   |  |     |
| Electives                          | 3 | Electives                               | 3                                 |  |     |                                   |  |     |

| Cottery College—Fall Semester 2 |   | Hrs                            | Cottery College—Spring Semester 2 |  | Hrs | Cottery College—Summer Semester 2 |  | Hrs |
|---------------------------------|---|--------------------------------|-----------------------------------|--|-----|-----------------------------------|--|-----|
| PHY 205 General Physics I       | 5 | PHY 206 General Physics II     | 5                                 |  |     |                                   |  |     |
| MAT 230 Calculus III            | 4 | MAT 240 Differential Equations | 4                                 |  |     |                                   |  |     |
| Fine Arts Course                | 3 | Social Science Course          | 3                                 |  |     |                                   |  |     |
| Physical Activity               | 1 | Electives                      | 3                                 |  |     |                                   |  |     |
| Electives                       | 2 |                                |                                   |  |     |                                   |  |     |

| UMKC—Fall Semester 3                        |   | Hrs                          | UMKC—Spring Semester 3 |  | Hrs | UMKC—Summer Semester 3 |  | Hrs |
|---|---|------------------------------|------------------------|--|-----|------------------------|--|-----|
| ME 130 Engineering Graphics                 | 3 | CE 276 Strength of Materials | 3                      |  |     |                        |  |     |
| ECE 216 Engineering Computation             | 4 | ECE 276 Circuit Theory I     | 3                      |  |     |                        |  |     |
| CE 275 Statics                              | 3 | ECE 277 Circuit Theory I Lab | 1                      |  |     |                        |  |     |
| ME 273 Engineering Analysis                 | 1 | ME 285 Dynamics              | 3                      |  |     |                        |  |     |
| CE 319 Engineering Computation & Statistics | 3 | ME 299 Thermodynamics        | 3                      |  |     |                        |  |     |
| Machine Shop Safety                         | 1 |                              |                        |  |     |                        |  |     |

| UMKC—Fall Semester 4              |   | Hrs                               | UMKC—Spring Semester 4 |  | Hrs | UMKC—Summer Semester 4 |  | Hrs |
|-----------------------------------|---|-----------------------------------|------------------------|--|-----|------------------------|--|-----|
| ME 324 Engineering Materials      | 3 | ME 306 Computer Aided Engineering | 3                      |  |     |                        |  |     |
| ME 324L Engineering Materials Lab | 1 | ME 352 Mechanical Instruments Lab | 2                      |  |     |                        |  |     |
| ME 351 Fluid Mechanics            | 3 | ME 353 Heat Transfer/Fluid Lab    | 2                      |  |     |                        |  |     |
| ME 356 Mechanical System Design   | 3 | ME 380 Manufacturing Methods      | 3                      |  |     |                        |  |     |
| ME 360 Thermal System Design      | 3 | ME 385 System Dynamics            | 3                      |  |     |                        |  |     |
|                                   |   | ME 399 Heat & Mass Transfer       | 3                      |  |     |                        |  |     |

| UMKC—Fall Semester 5                 |   | Hrs                                     | UMKC—Spring Semester 5 |  | Hrs | UMKC—Summer Semester 1 |  | Hrs |
|--------------------------------------|---|---|------------------------|--|-----|------------------------|--|-----|
| ME 492 Mechanical Design Synthesis I | 3 | ME 496WI Mechanical Design Synthesis II | 3                      |  |     |                        |  |     |
| ME 4XX Core Elective                 | 3 | ME 4XX Core Elective                    | 3                      |  |     |                        |  |     |
| ME 4XX Core Elective                 | 3 | ME 4XX Core Elective                    | 3                      |  |     |                        |  |     |
| ME 4XX Open Elective                 | 3 | ME 4XX Design Elective                  | 3                      |  |     |                        |  |     |