

# Recommended Schedule

| Level 3     |                                 |           |            |      |
|-------------|---------------------------------|-----------|------------|------|
| Course Code | Course Title                    | Cr. Hr    | Requisites |      |
|             |                                 |           | Pre-       | Coe- |
| IC 101      | Introduction to Islamic Culture | 2 (2,0,0) |            |      |
| MATH 105    | Differential Calculus           | 3 (3,1,0) |            |      |
| CHEM 101    | General Chemistry (1)           | 4 (3,1,2) |            |      |
| PHYS 103    | General Physics (1)             | 4 (3,1,2) |            |      |
| GE 212      | Computer Programming            | 3 (2,0,2) |            |      |
| GE 106      | Introduction to Engineering     | 2 (1,0,2) |            |      |
| Total       |                                 | 18        |            |      |

| Level 5     |                                           |           |                      |      |
|-------------|-------------------------------------------|-----------|----------------------|------|
| Course Code | Course Title                              | Cr. Hr    | Requisites           |      |
|             |                                           |           | Pre-                 | Coe- |
| IC 102      | Islam and Society Building                | 2 (2,0,0) |                      |      |
| MATH 203    | Differential & Integral Calculus          | 3 (3,1,0) | MATH 106<br>MATH 107 |      |
| ENGL 107    | Technical Writing                         | 3 (3,0,0) | ENGL 106             |      |
| CE 201      | Statics                                   | 3 (3,1,0) | MATH 106<br>MATH 107 |      |
| CE 212      | Surveying                                 | 3 (2,1,2) | MATH 107             |      |
| CE 240      | Introduction to Environmental Engineering | 3 (2,1,2) | CHEM 101             |      |
| Total       |                                           | 17        |                      |      |

| Level 7     |                               |           |            |        |
|-------------|-------------------------------|-----------|------------|--------|
| Course Code | Course Title                  | Cr. Hr    | Requisites |        |
|             |                               |           | Pre-       | Coe-   |
| IC 103      | The Islamic Economic System   | 2 (2,0,0) |            |        |
| MATH 254    | Numerical Methods             | 3 (3,1,0) | MATH 107   |        |
| CE 307      | Construction Materials        | 3 (2,1,2) | CE 302     |        |
| CE 323      | Water Resources Engineering   | 3 (3,1,0) | CE 320     |        |
| CE 360      | Structural Analysis (1)       | 3 (3,1,0) | CE 302     |        |
| CE 381      | Geotechnical Engineering (1)  | 2 (2,1,0) | CE 302     | CE 382 |
| CE 382      | Geotechnical Engineering Lab. | 1 (0,0,2) | CE 302     | CE 381 |
| Total       |                               | 17        |            |        |

| Level 9     |                                    |           |                               |        |
|-------------|------------------------------------|-----------|-------------------------------|--------|
| Course Code | Course Title                       | Cr. Hr    | Requisites                    |        |
|             |                                    |           | Pre-                          | Coe-   |
| CE 431      | Highway Engineering                | 3 (3,1,0) | CE 330<br>CE 481              | CE 432 |
| CE 432      | Highway Engineering Lab            | 1 (0,0,2) | CE 330<br>CE 481              | CE 431 |
| CE 482      | Foundation Engineering             | 2 (2,1,0) | CE 370<br>CE 481              |        |
| CE 404      | Management of Engineering Projects | 2 (2,1,0) |                               |        |
| CE 499      | Cooperative Summer Training        | 0 (0,0,0) | 102 hours excluding PYP hours |        |
| CE 496      | Senior Design Project (1)          | 2 (2,0,0) |                               |        |
| CE 4xx      | Specialized elective courses (1)   | 3 (3,1,0) | Refer to Tables A-E           |        |
| CE 4xx      | Specialized elective courses (2)   | 3 (3,1,0) | Refer to Tables A-E           |        |
| Total       |                                    | 16        |                               |        |

| Level 4     |                                |           |            |      |
|-------------|--------------------------------|-----------|------------|------|
| Course Code | Course Title                   | Cr. Hr    | Requisites |      |
|             |                                |           | Pre-       | Coe- |
| ARAB 101    | Language Skills                | 2 (2,0,0) |            |      |
| MATH 106    | Integral Calculus              | 3 (3,1,0) | MATH 105   |      |
| MATH 107    | Vectors and Matrices           | 3 (3,1,0) | MATH 105   |      |
| PHYS 104    | General Physics (2)            | 4 (3,1,2) | PHYS 103   |      |
| GE 107      | Engineering Drawing and Design | 3 (1,0,4) |            |      |
| ENGL 116    | English Composition            | 3 (3,0,0) |            |      |
| Total       |                                | 18        |            |      |

| Level 6     |                            |           |                    |        |
|-------------|----------------------------|-----------|--------------------|--------|
| Course Code | Course Title               | Cr. Hr    | Requisites         |        |
|             |                            |           | Pre-               | Coe-   |
| ARAB 103    | Expository Writing         | 2 (2,0,0) |                    |        |
| MATH 204    | Differential Equations     | 3 (3,1,0) | MATH 203           |        |
| ME 202      | Dynamics                   | 3 (3,1,0) | CE 201             |        |
| CE 320      | Fluid Mechanics            | 3 (3,1,0) | CE 201<br>PHYS 103 | CE 321 |
| CE 321      | Fluid Mechanics Lab        | 1 (0,0,2) | CE 201<br>PHYS 103 | CE 320 |
| CE 302      | Mechanics of Materials     | 3 (3,1,0) | CE 201             | CE 305 |
| CE 305      | Mechanics of Materials Lab | 1 (0,0,2) | CE 201             | CE 302 |
| Total       |                            | 16        |                    |        |

| Level 8     |                                             |           |                  |      |
|-------------|---------------------------------------------|-----------|------------------|------|
| Course Code | Course Title                                | Cr. Hr    | Requisites       |      |
|             |                                             |           | Pre-             | Coe- |
| STAT 324    | Engineering Probability and Statistics      | 3 (3,1,0) |                  |      |
| CE 341      | Water Supply and Waste Water Treatment Eng. | 3 (2,1,2) | CE 240<br>CE 323 |      |
| CE 330      | Traffic Engineering (1)                     | 3 (3,1,0) |                  |      |
| CE 460      | Structural Analysis (2)                     | 3 (3,1,0) | CE 360           |      |
| CE 370      | Reinforced Concrete Design (1)              | 3 (3,1,0) | CE 307<br>CE 360 |      |
| CE 481      | Geotechnical Engineering (2)                | 2 (2,1,0) | CE 381<br>CE 382 |      |
| Total       |                                             | 17        |                  |      |

| Level 10    |                                              |           |                     |      |
|-------------|----------------------------------------------|-----------|---------------------|------|
| Course Code | Course Title                                 | Cr. Hr    | Requisites          |      |
|             |                                              |           | Pre-                | Coe- |
| IC 104      | Fundamentals of the Islamic Political System | 2 (2,0,0) |                     |      |
| GE 403      | Engineering Economy                          | 2 (2,1,0) |                     |      |
| GE 490      | Ethics and Professional Practice             | 2 (2,1,0) |                     |      |
| CE 410      | Construction Engineering and Management      | 3 (3,1,0) |                     |      |
| CE 497      | Senior Design Project (2)                    | 2 (2,0,0) | CE 496              |      |
| CE 4xx      | Specialized elective courses (3)             | 3 (3,1,0) | Refer to Tables A-E |      |
| CE 4xx      | Specialized elective courses (4)             | 3 (3,1,0) | Refer to Tables A-E |      |
| Total       |                                              | 17        |                     |      |