

| CODE                                      | 2019 Associate Degree in Engineering Schedule     | COMPLETED | CODE  | 2020 Associate Degree in Engineering Schedule     | MUST DO |
|---|---|-----------|---|---|---------|
| <b>Engineering Pathway Courses</b>        |   |           | <b>Engineering Pathway Courses</b>  |   |         |
| ENR101                                    | Essential Mathematics 1: Algebra and Trigonometry |           | ENR101  | Essential Mathematics 1: Algebra and Trigonometry |         |
| ENR102                                    | Essential Mathematics 2: Calculus                 |           | ENR102  | Essential Mathematics 2: Calculus                 |         |
| SCI16                                     | General Physics (Murdoch)                         |           | SCI16   | General Physics (Murdoch)                         |         |
| SCI18                                     | Fundamentals of Chemistry (Murdoch)               |           | SCI18   | Fundamentals of Chemistry (Murdoch)               |         |
| <b>Common First Level subjects</b>        |   |           | <b>Common First Level subjects</b>  |   |         |
| ENR112                                    | Sustainable Engineering Practice                  |           | ENR112  | Sustainable Engineering Practice                  |         |
| ENR113                                    | Engineering Design and Innovation                 |           | ENR113  | Engineering Design and Innovation                 |         |
| ENR114                                    | Mathematical Methods for Engineers 1              |           | ENR114  | Mathematical Methods for Engineers 1              |         |
| ENR115                                    | Mathematical Methods for Engineers 2              |           | ENR115  | Mathematical Methods for Engineers 2              |         |
| ENR116                                    | Engineering Materials                             |           | ENR116  | Engineering Materials                             |         |
| ENR118                                    | Engineering Drawing with SolidWorks               |           |   |   |         |
| ENR119                                    | Engineering Mechanics                             |           | ENR119  | Engineering Mechanics                             |         |
|   |   |           | ENR121  | Electronical and Electronic Systems               |         |
|   |   |           | ENR122  | Programming Concepts                              |         |
| <b>Mechanical Electives</b>               |   |           | <b>Mechanical Electives (5 subjects in total. Include any completed from 2019 schedule)</b> |   |         |
| ENR111                                    | Electricity and Electronics                       |           |   |   |         |
| <b>Plus 4 subjects from the following</b> |   |           |   |   |         |
| ENR202                                    | Mechanics of Materials                            |           | ENR202  | Mechanics of Materials                            |         |
| ENR208                                    | Engineering Modelling                             |           |   |   |         |
| ENR209                                    | Fluid and Energy Engineering                      |           | ENR209  | Fluid and Energy Engineering                      |         |
| ENR210                                    | Mechanical Design Practice                        |           |   |   |         |
| ENR212                                    | Manufacturing Processes                           |           | ENR212  | Manufacturing Processes                           |         |
| ENR215                                    | Engineering Dynamics                              |           | ENR215  | Engineering Dynamics                              |         |
| ENR301                                    | Professional Engineering Practice                 |           | ENR301  | Professional Engineering Practice                 |         |
| ENR302                                    | Operations and Project Management for Engineers   |           |   |   |         |
| <b>Civil Electives</b>                    |   |           | <b>Civil Mechanical (5 subjects in total. Include any completed from 2019 schedule)</b>     |   |         |
| ENR120                                    | Engineering and Environmental Geology             |           | ENR120  | Engineering and Environmental Geology             |         |
| <b>plus 4 subjects from the following</b> |   |           |   |   |         |
| ENR201                                    | Introduction to Surveying and Spatial Sciences    |           |   |   |         |
| ENR202                                    | Mechanics of Materials                            |           | ENR202  | Mechanics of Materials                            |         |
| ENR203                                    | Civil Engineering Practice                        |           |   |   |         |
| ENR204                                    | Introduction to Water Engineering                 |           |   |   |         |
| ENR205                                    | Water Chemistry                                   |           |   |   |         |
| ENR208                                    | Engineering Modelling                             |           |   |   |         |
| ENR216                                    | Road Design and Traffic Management                |           | ENR216  | Road Design and Traffic Management                |         |
| ENR301                                    | Professional Engineering Practice                 |           | ENR301  | Professional Engineering Practice                 |         |
|   |   |           | ENR209  | Fluid and Energy Engineering                      |         |
| <b>16 Subjects in Total</b>               |   |           | <b>16 Subjects in Total</b>   |   |         |