

Model Study Path for BENGU2 MFSE 2016 Cohort - Advanced Standing II

| Yr | Sem | Major Requirements ⁺ | | | | | | Gateway Education & Others | CUs |
|---------------------------------|----------|--|--|--|---|---|--|--|---------------------|
| 1 | A | MBE2016 Engineering Graphics (3) <no> | MBE2034 Engineering Materials and Processing (3) <no> | MBE2003 Mechanics (3) <no> | MA2172 Applied Statistics for Sciences and Engineering (3) <no> | MBE2036 Engineering Computing (3) <no> | MBE2020 Engineering Workshop Practice (0) | GE2410 English for Engineering (3) | 15 or 18 |
| | B | MBE3050 Design for Manufacturing and Manufacturing Systems (3) <MBE2034> | MBE2101 Thermo and Fluid Dynamics (3) <no> | MBE2029 Electrical & Electronic Principles I (3) <no> | SEEM3102 Quality Engineering (3) <no> | GE 1 (3) | | CSpC 1 / GE 2 (3) | 18 or 15 |
| | S | | | | | | | CSpC 2 / GE 3 (3) | 3 |
| 2 | A | MBE3007 CAD/CAM (3) <no> | MBE3006 Plastics Engineering (3) <MBE2034 & MA1201 or MA1301> | SEEM3032 Production and Operations Planning (3) <no> | MBE3046 Automation Technology(3) <no> | Major Elective 1 (3) | Major Elective 2 (3) | | 18 |
| | B | MBE4005 Finite Element Analysis (3) <MBE2003 & MBE3007> | MBE3019 Metrology and Applications (3) <MBE2016> | MBE4068 Project (3)* < complete at least 36 CUs core> | MBE4066 Professional Engineering Practice (3) <complete 45 CUs> | MBE3010 Mechanical Design (3) <MBE2003> | | | 15 |
| | S | | | MBE4068 Project (6)* | | | Reserve for missed courses | | 6 |
| () indicates number of credits | | | | | | | | Total credits required = 75 | |

⁺3 credit units of core courses have been waived for students admitted with Advanced Standing II from the B2 level courses upon admission based on the academic background of students. Students with a course waived in Year 1 may consider taking a CSpC/GE course.

< > prerequisites – those which are not part of the Major Requirement for students admitted into Advanced Standing II will be waived

* MBE4068 Project/ MBE4116 Capstone Project II.

Note 1: MBE2020 should be taken in Year 1 during Semester A, Semester B, or Summer Term depending on the allocation and availability of workshop training places.

Note 2: Students are required to take 6 credit units of College/School-specified Courses (CSpC) which are any courses not within the Major Requirement.

Note 3: Students may alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied and all graduation requirements could be met within the normative study period.