



澳門大學  
UNIVERSIDADE DE MACAU  
UNIVERSITY OF MACAU

## Study Plan for the First Year Studies at the SBU (EME17)

Students are required to complete at least 5 courses (15 credits) in the 1<sup>st</sup> year at the SBU.

- Two (2) compulsory courses from Group 1 and Group 2; and
- Three (3) elective courses from Group 3 to Group 8.

| Group                     | Courses to be studied at the SBU (Major in Mechanical Engineering) |                                    |         | UM courses to be exempted (BSc in Electromechanical Engineering) |  |         |
|---------------------------|--|------------------------------------|---------|--|--|---------|
|                           | Course Code  | Course Title                       | Credits | Course Code  | Course Title                                       | Credits |
| <b>Compulsory Courses</b> |  |                                    |         |  |  |         |
| 1                         | MEC 440  | Mechanical Engineering Design I    | 3       | EMEN4000   | Graduation Project                                 | 6       |
| 2                         | MEC 441  | Mechanical Engineering Design II   | 3       |  |  |         |
| <b>Elective Courses</b>   |  |                                    |         |  |  |         |
| 3                         | MEC 325  | Manufacturing Processes            | 3       | EMEN3039   | Mechanical Processing of Materials                 | 3       |
| 4                         | MEC 393  | Engineering Fluid Mechanics        | 3       | EMEN3031   | Special Topics in Electromechanical Engineering II | 3       |
| 5                         | MEC 398  | Thermodynamics II                  | 3       | EMEN3030   | Special Topics in Electromechanical Engineering I  | 3       |
| 6                         | MEC 411  | Control System Analysis and Design | 3       | EMEN3042   | Sensors and Actuators                              | 3       |
| 7                         | MEC 422  | Thermal System Design              | 3       | EMEN3008   | Air Conditioning and Refrigeration                 | 3       |
| 8                         | MEC 423  | Internal Combustion Engines        | 3       | EMEN3019   | Internal Combustion Engines                        | 3       |