Graduation requirements for Double Degree Programme

BEng (CEG), BBA of AY2017 and AY2018 intakes - CEG requirements only
Minimum MCs for BEng (CEG) and BBA: 184

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>MCs</th>
<th>MCs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. University Level Requirements (ULR)</strong></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>One General Education Module (GEM) from each of the five pillars:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Cultures – GEH1xxx</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td>Asking Questions – GEO1000</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td>Quantitative Reasoning – GER1000</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td>Singapore Studies – GES1xxx</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td>Thinking and Expression – GET1xxx</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td><strong>B. School of Business - BBA Programme Requirements</strong></td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>For BBA requirements, please refer to:</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C. FoE &amp; SoC - BEng (CEG) Programme Requirements</strong></td>
<td>90</td>
<td></td>
</tr>
<tr>
<td><strong>Major Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CEG Core Modules</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CG1111 Engineering Principles and Practice I</td>
<td>C1</td>
<td>6</td>
</tr>
<tr>
<td>CG1112 Engineering Principles and Practice II</td>
<td>C1</td>
<td>6</td>
</tr>
<tr>
<td>CS1010 Programming Methodology</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CS1231 Discrete Structures</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>MA1511 Engineering Calculus</td>
<td>C1</td>
<td>2</td>
</tr>
<tr>
<td>MA1512 Differential Equations for Engineering</td>
<td>C1</td>
<td>2</td>
</tr>
<tr>
<td>MA1508E Linear Algebra for Engineering</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CG2023 Signals &amp; Systems</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CG2027 Transistor-level Digital Circuits</td>
<td>C1</td>
<td>2</td>
</tr>
<tr>
<td>CG2028 Computer Organization</td>
<td>C1</td>
<td>2</td>
</tr>
<tr>
<td>CG2271 Real-Time Operating Systems</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CS2040C Data Structures and Algorithms</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CS2113/T Software Engineering &amp; Object-Oriented Programming</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>EE2026 Digital Design</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>EG2401A Engineering Professionalism</td>
<td>C1</td>
<td>2</td>
</tr>
<tr>
<td>ST2334 Probability &amp; Statistics</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CG3207 Computer Architecture OR</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CS3230 Design and Analysis of Algorithms</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td>CG4002 Computer Engineering Capstone Project</td>
<td>C1</td>
<td>8</td>
</tr>
<tr>
<td>EE4204 Computer Networks</td>
<td>C1</td>
<td>4</td>
</tr>
<tr>
<td><strong>CEG Technical Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- at least 12 MCs technical Depth electives from any concentration</td>
<td>C1</td>
<td>16</td>
</tr>
<tr>
<td>- another 4 MCs technical Breadth/Depth electives from any concentration</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>D. Common Modules</strong></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>One common (core) module from BEng and BBA:</td>
<td>4 MCs</td>
<td></td>
</tr>
<tr>
<td>ES2002 Business Communication for Leaders / UWC2101% (USP) / ES1601 (RVRC)</td>
<td>CA</td>
<td>4</td>
</tr>
<tr>
<td><strong>Four common (elective) modules from BEng (CEG)/BBA:</strong></td>
<td>16 MCs</td>
<td></td>
</tr>
<tr>
<td>Minimum two CEG technical electives from Table 1</td>
<td>CA</td>
<td>8</td>
</tr>
<tr>
<td>Minimum two BBA modules from Table 1</td>
<td>CA</td>
<td>8</td>
</tr>
<tr>
<td><strong>E. Unrestricted Elective Requirements (UEM)</strong></td>
<td>Exempted</td>
<td>Exempted</td>
</tr>
<tr>
<td>AY17 intake: TOTAL – BEng (CEG), BBA</td>
<td>184</td>
<td></td>
</tr>
</tbody>
</table>
C1 / C2 / CA CLASSIFICATION:

The modules that DDP students take are counted towards the CAP in the following manner:

<table>
<thead>
<tr>
<th></th>
<th>Classification in the database</th>
</tr>
</thead>
<tbody>
<tr>
<td>First / Primary degree</td>
<td>Classified as C1</td>
</tr>
<tr>
<td>Second / Secondary degree</td>
<td>Classified as C2</td>
</tr>
<tr>
<td>Both degrees</td>
<td>Classified as CA</td>
</tr>
</tbody>
</table>

Additional modules taken will be counted towards C1, except for modules offered by the faculty of the student’s second degree, which will be classified as C2.

Table 1: Common Modules in the BEng (CEG) & BBA Double Degree programme

<table>
<thead>
<tr>
<th>BEng modules***</th>
<th>BBA modules***</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS4244 Knowledge Based Systems</td>
<td>FIN3701 Corporate Finance</td>
</tr>
<tr>
<td>EE3031 Innovation &amp; Enterprise I</td>
<td>FIN3702 Investment Analysis and Portfolio Management</td>
</tr>
<tr>
<td>IE2110 Operations Research I (anti-req: DBA3701)</td>
<td>DOS3701 Supply Chain Management</td>
</tr>
<tr>
<td>IE2130 Quality Engineering I</td>
<td>DOS3702 Purchasing &amp; Materials Management</td>
</tr>
<tr>
<td>MT4002 Technology Management Strategy</td>
<td>DOS3711 Strategic Information Systems</td>
</tr>
<tr>
<td></td>
<td>DBA3701 Introduction to Optimization (anti-req: IE2110)</td>
</tr>
<tr>
<td></td>
<td>DBA4811 Analytical Tools for Consulting</td>
</tr>
</tbody>
</table>

*** Subject to approval of student’s host Department. This list may be updated by the Faculty of Engineering and School of Business acting in concert.

==================================================================================
Other relevant information:
CEG Technical Electives - http://www.ceg.nus.edu.sg/students/third_year.html
Faculty of Engineering - https://www.eng.nus.edu.sg/undergraduatestudies/special-programmes/double-degree/