Table A
The CSEM Option Table lists all 4th and 5th year options available to students studying Computer Science, Engineering and Mathematics awards subject to prerequisites. Not all topics listed are taught in any year. All topics are 4.5 units. Group codes are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Topic Name</th>
<th>Group(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP4701</td>
<td>Advanced Enterprise Security</td>
<td>C, S</td>
</tr>
<tr>
<td>COMP4702</td>
<td>Computer Supported Cooperative Work and Groupware</td>
<td>C, S</td>
</tr>
<tr>
<td>COMP4706</td>
<td>Advanced Conceptual Modelling and Knowledge Engineering</td>
<td>C, S</td>
</tr>
<tr>
<td>COMP4707</td>
<td>Advanced Data Mining</td>
<td>C, S</td>
</tr>
<tr>
<td>COMP4709</td>
<td>Computational Genomics</td>
<td>C, S</td>
</tr>
<tr>
<td>COMP4712</td>
<td>Embodied Conversational Agents</td>
<td>C, R, S</td>
</tr>
<tr>
<td>COMP4716</td>
<td>Information Retrieval and Text Processing</td>
<td>C, D, S</td>
</tr>
<tr>
<td>COMP4720</td>
<td>Advanced Studies in Computer Science</td>
<td>C, S</td>
</tr>
<tr>
<td>ENGR2776</td>
<td>Hydrostatics</td>
<td>H</td>
</tr>
<tr>
<td>ENGR4701</td>
<td>Advanced Biomechanics</td>
<td>B, H</td>
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<tr>
<td>ENGR4702</td>
<td>Biomaterials</td>
<td>B, H</td>
</tr>
<tr>
<td>ENGR4707</td>
<td>Medical Physics</td>
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</tr>
<tr>
<td>ENGR4708</td>
<td>Scalable Computing</td>
<td>C, S, Y</td>
</tr>
<tr>
<td>ENGR4711</td>
<td>Advanced Control Systems</td>
<td>E, H, R, Y</td>
</tr>
<tr>
<td>ENGR4712</td>
<td>Autonomous Systems</td>
<td>E, R</td>
</tr>
<tr>
<td>ENGR4720</td>
<td>Advanced Studies in Engineering</td>
<td>B, E, H, R, S, Y</td>
</tr>
<tr>
<td>ENGR4722</td>
<td>Haptic-Enabled Systems</td>
<td>B, R</td>
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<tr>
<td>ENGR4731</td>
<td>Computer Architecture</td>
<td>E, Y</td>
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<tr>
<td>ENGR4732</td>
<td>Instrumentation</td>
<td>E, R, Y</td>
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<tr>
<td>ENGR4741</td>
<td>Environmental Monitoring and Modelling</td>
<td>V</td>
</tr>
<tr>
<td>ENGR4742</td>
<td>Standards, Ethics and Compliance</td>
<td>All</td>
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<tr>
<td>ENGR4751</td>
<td>Embedded Systems Architectures</td>
<td>E, Y</td>
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<tr>
<td>ENGR4761</td>
<td>Image Processing</td>
<td>E, R, S, Y</td>
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<tr>
<td>ENGR4771</td>
<td>Rehabilitation Engineering</td>
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<td>ENGR4781</td>
<td>Innovation in Medical Devices</td>
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<td>ENGR4791</td>
<td>Software Engineering 4</td>
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<tr>
<td>GEOG3711</td>
<td>Advanced Digital Image Analysis</td>
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<tr>
<td>MATH4701</td>
<td>Finite Element Methods</td>
<td>B, M, H</td>
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<tr>
<td>MATH4702</td>
<td>Applications of Mathematics</td>
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<tr>
<td>MATH4706</td>
<td>Measure Theory and Integration</td>
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<tr>
<td>MATH4707</td>
<td>Optimisation</td>
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<tr>
<td>MATH4709</td>
<td>Topology</td>
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<tr>
<td>MATH4712</td>
<td>Differential Geometry</td>
<td>M</td>
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<tr>
<td>MATH4720</td>
<td>Advanced Studies in Mathematics</td>
<td>M</td>
</tr>
</tbody>
</table>

With permission of the Director of Studies, one CSEM option may be chosen from CSEM upper-level topics. CSEM upper-level topics must be selected from COMP, ENGR, MATH and STAT topics at 2000-level and above.