Policy on Exemptions from Courses
for students admitted to the Classes of 2013 onwards

The set of courses that a student must complete in order to earn the degree of B.Eng. is set out in the University Calendar. However, a significant minority of students enter Engineering One and/or Academic Term 3 with some required courses (or their equivalents) completed in advance. This policy follows the precedent set for Transition students (during 2007-09).

Engineering Regulation 2.1.9 states, in part, “A minimum grade of 60% is required for credit to be given towards a student’s engineering program for any technical elective taken outside the normal blocks as shown in the tables.”

Consistent with this regulation, a student requires a grade of at least 60 to gain exemption from a required technical course. The Associate Dean (Undergraduate Studies) has the delegated authority to grant the following exemptions.

For grades of at least 60 in both Mathematics 2000 and 3260:

Students in the Computer, Electrical, Mechanical and Process majors gain an exemption from ENGI 3424 “Engineering Mathematics” in Term 3.

- An exemption from ENGI 4430 “Advanced Calculus for Engineering” in Term 4 (Electrical and Mechanical) requires two additional courses, both with grades of at least 60: Mathematics 3202 and 4160.

- Any requests by students in the Process major for exemption from the Term 4 courses ENGI 4621 “Process Mathematical Methods” and ENGI 4625 “Process Engineering Calculations” will be handled on a case-by-case basis. In most cases, due to the applications to process engineering that are integrated into these courses, no exemption will be granted.

Students in the Civil major gain an exemption from ENGI 3425 “Mathematics for Civil Engineering I” in Term 3, but with a caution that some material for the topic of “functions of a single parameter” may be missing.

- An exemption from ENGI 4425 “Mathematics for Civil Engineering II” in Term 4 requires an additional course with a grade of at least 60: Mathematics 3132.

- An exemption from ENGI 5434 “Applied Mathematical Analysis” in Term 5 requires two additional courses with grades of at least 60: Mathematics 4160 and 4162.

Students in the Ocean and Naval Architectural major gain exemptions from MATH 2000 in Term 3 and MATH 3260 in Term 4.
Policy on Exemptions

For any of the following grades
- at least 60 in the former ENGI 3423 “Probability and Statistics” or
- at least 60 in STAT 2510 “Statistics for Physical Science Students” or
- at least 60 in STAT 2550 “Statistics for Science Students” (2013 Fall onwards) or
- at least 75 in STAT 2550 “Statistics for Life Science Students” (before 2013 Fall) or
- at least 85 in STAT 2500 “Statistics for Business and Arts Students”:

Students in the Civil and Process majors gain an exemption from ENGI 4421 “Probability and Statistics” in Term 4.

Students in the Mechanical major gain an exemption from ENGI 4421 “Probability and Statistics” in Term 5 (Classes of 2016 onwards; in Term 7 for the Classes of 2014 and 2015).

Students in the Computer, Electrical and Ocean and Naval Architectural majors do not gain any exemption as a result of a credit in STAT 2510/2550/2500 or ENGI 3423. There is insufficient overlap with the new courses ENGI 5420 “Probability and Random Processes” (Electrical and Computer) and ENGI 5022 “Stochastic Processes in Ocean Engineering” (ONAE) to justify an exemption.

For a grade of at least 60 in MATH 2320 “Discrete Mathematics”:

Students in the Computer major gain an exemption from ENGI 4424 “Discrete Mathematics for Computer Engineering” in Term 4.

Complementary Studies Electives:

A pass is sufficient for complementary studies courses, whenever they are completed, provided that the overall average across the seven complementary studies courses is at least 60% (Engineering Regulation 2.2.3). However, some of these courses have prerequisites, most notably ENGI 7102 “The Engineering Profession”, which may be attempted only after successful completion of Work Term 3, (normally in Academic Term 7).

Other Courses:

Some students may have passed additional courses that may qualify them for exemptions from some required courses later in their programmes. Such exemption requests will be considered on a case-by-case basis and are not governed by this policy.
Policy on Exemptions

For students entering the Class of 2013 or later, with credits from the Class of 2012 or earlier

Abbreviations:
Cv Civil Engineering major
Co Computer Engineering major
E Electrical Engineering major
M Mechanical Engineering major
N Ocean and Naval Architectural Engineering (ONAE) major
P Process Engineering major

The Associate Dean (Undergraduate Studies) has delegated authority to grant requests for exemptions from the following courses:

Engineering Mathematics Courses

ENGI 3424 "Engineering Mathematics" (Co / E / M / P)
or
ENGI 3425 "Mathematics for Civil Engineering I" (Cv)
or
MATH (2000 and 3260) (N)

An exemption is granted for
min. grade courses
60 ENGI 1405 and 2422 ("Engineering Mathematics I & II")

ENGI 4425 "Mathematics for Civil Engineering II" (Cv)

An exemption is granted for
min. grade courses
60 ENGI 1405 and 2422 and (4422 or 4423, "Numerical Methods")

ENGI 4430 "Advanced Calculus for Engineering" (E / M)
or
MATH 3202 (N)

An exemption is granted for
min. grade courses
60 ENGI 1405 and 2422 and (5432 or 5435 "Advanced Calculus" or 5434)

ENGI 4621 "Process Mathematical Methods" (P)
and
ENGI 4625 "Process Engineering Calculations" (P)

Normally no exemption, (due to the content that is specific to Process Engineering).
Policy on Exemptions

ENGI 5434 "Applied Mathematical Analysis" (Cv)

An exemption is granted for

<table>
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<th>min. grade</th>
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<tr>
<td>60</td>
<td>ENGI (4422 or 4423) and 5434</td>
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Engineering Materials and Mechanics Courses

ENGI 3911 "Chemistry and Physics of Engineering Materials I" (M / N / P)

An exemption is granted for

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<th>course</th>
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<tr>
<td>60</td>
<td>ENGI 2205 &quot;Chemistry and Physics of Engineering Materials I&quot;</td>
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ENGI 3934 "Dynamics" (Cv / M / N)

An exemption is granted for

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<th>min. grade</th>
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<tr>
<td>60</td>
<td>ENGI 2313 &quot;Mechanics II Kinematics and Kinetics of Rigid Bodies&quot;</td>
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</table>

Complementary Studies Courses

ENGI 3101 "The Engineering Workplace" (all students)

An exemption is granted for

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<tbody>
<tr>
<td>50</td>
<td>ENGI 5101 &quot;The Engineering Profession&quot;</td>
</tr>
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</table>

[This case arises when a student attempts Term 5 in the Class of 2012 or before and is subsequently readmitted into the Class of 2013 or later.]

On 2009 August 7 the CUGS Executive delegated its authority to grant requests for the exemptions listed in this document to the Associate Dean (Undergraduate Studies), but with a requirement to report periodically to CUGS the numbers of such requests granted and denied.

Document compiled 2009 08 07 and approved by Faculty Council 2009 09 30
Document revised 2011 09 27 to include the delegation on 2011 09 21 by CUGS of exemption requests for ENGI 3101
Document revised 2013 05 15.