

## B. Eng. Bioresource Engineering Course Sequence

Fall 2019 admission from CEGEP (113 credits)

<b>U1 Fall Term</b>		<b>16 credits</b>
AEMA 202	Intermediate Calculus	3
BREE 205	Engineering Design 1	3
BREE 210	Mechanical Analysis & Design	3
BREE 216	Bioresource Engineering Materials	3
BREE 252	Computing for Engineers	3
BREE 451	UG Seminar 1 - Oral Presentation	1
<b>U1 Winter Term</b>		<b>16 credits</b>
AEMA 305	Differential Equations	3
BREE 301	Biothermodynamics	3
BREE 341	Mechanics of Materials	3
BREE 452	UG Seminar 2 - Poster Presentation	1
	2 complementary courses from set B, C, or D	6
<b>U2 Fall Term</b>		<b>16 credits</b>
BREE 305	Fluid Mechanics	3
BREE 319	Engineering Mathematics	3
BREE 327	Bio-Environmental Engineering	3
BREE 453	UG Seminar 3 - Scientific Writing	1
	2 complementary courses from set B, C, or D	6
<b>U2 Winter Term (on the downtown campus)</b>		<b>16 credits</b>
ECSE 461	Electric Machinery	3
FACC 250	Responsibilities of the Professional Engineer	0
FACC 300	Engineering Economy	3
FACC 400	Engineering Professional Practice	1
MECH 289	Design Graphics	3
MECH 346	Heat Transfer	3 <sup>A</sup>
	1 complementary course from set B, C, or D	3
<b>U3 Fall Term</b>		<b>16 credits</b>
AEMA 310	Statistical Methods 1	3 <sup>B</sup>
BREE 485	Senior Undergraduate Seminar 1	1
ENVR 201	Society, Environment and Sustainability	3 <sup>C</sup>
	3 complementary courses from set B, C, or D	9
<b>U3 Winter Term</b>		<b>15 credits</b>
BREE 415	Design of Machines and Structural Elements	3
BREE 420	Engineering for Sustainability	3
BREE 490	Engineering Design 2	3
	2 complementary courses from set B, C, or D	6
<b>U4 Fall Term</b>		<b>18 credits</b>
BREE 495	Engineering Design 3	3
	5 complementary courses from set B, C, or D	15

<sup>A</sup> CHEE 315 Heat and Mass Transfer may be taken instead of MECH 346.

<sup>B</sup> CIVE 302 Probabilistic Systems may be taken instead of AEMA 310.

<sup>C</sup> SOCI 235 Technology and Society may be taken instead of ENVR 201.