

Bachelor of Applied Science in Energy Systems Engineering

Petroleum Engineering Option

2025-2026

TERM 1 (Fall)	Prerequisites
3.0 CHEM 104	CHEM 30 or CHEM 100 (65%)
3.0 ENGG 100	No prereq
3.0 PHYS 109	MATH B/C 30 or MATH 102
3.0 MATH 110	MATH B/C 30 (65%)
3.0 MATH 122	MATH B/C 30
Term 2 (Winter)	
3.0 CS 110	MATH B/C 30
3.0 ENGG 123	No prereq
3.0 ENGL 100	No prereq
3.0 MATH 111	MATH 110
3.0 ENGG 140	MATH 110 (concurrent enrolment allowed)
Term 3 (Fall)	
3.0 ENEL 280	MATH 111
3.0 ENGG 141	ENGG 140 and Math 111 (Math 111 may be taken concurrently)
3.0 ENER 201	ESC 102 concurrent enrolment allowed
3.0 ESC 102	No prereq
3.0 MATH 217	MATH 111 and MATH 122
Term 4 (Winter)	
3.0 ENER 203	Math 217 concurrent enrolment allowed
3.0 ENIN 233	MATH 217
3.0 CHEM 105	CHEM 104
3.0 MATH 213	MATH 111 and MATH 122
3.0 STAT 289	MATH 111
Term 5 (Fall)	
3.0 ENEV 223	ENGG 123
3.0 ENEV 261	ENGG 141 and PHYS 109 or PHYS 119 and 45 credit hours
3.0 ENGG 303	STAT 289
3.0 ENER 301	ENER 201 and ENER 203
3.0 ENGG 330	CS 110, MATH 111, MATH 122 STAT 289
Term 6 (Spring/Summer)	
3.0 BUS 260	ENGL 100
3.0 Social Science/Hum E	
3.0 ECON 201	15 credit hours or ECON 100 or Pre-Cal 20
3.0 ENIN 253	PHYS 109 or PHYS 119
3.0 ENIN 350	Chem 104 and ENIN 253 (ENIN 253 may be taken concurrently)
Term 7 (Winter)	
3.0 ENIN 355	ENEV 261 and ENIN 350
3.0 ENER 305	ENER 203 and ENIN 253 and ENGG 140 and ENGG 141
3.0 ENER 331	ENER 301
3.0 ENER 333	ENER 301 and ENEV 261
3.0 ESC 270	ESC 102
Term 8 (Fall)	
1.0 ENER 400	Completion of 200 and 300 level ENER courses and 99 credit hours
3.0 ENER 431	ENER 331
3.0 ENER 433	ENER 201 and ENER 333 (ENER 331 concurrent enrolment allowed)
3.0 ENER 435	ENER 301 and ENEV 261
3.0 Approved Elective	
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Term 9 (Winter)	
3.0 ENGG 401	One of ENEL 400, ENEV 400, ENIN 400, ENPE 400, ENSE 400 or ENER 400
3.0 ENER 409	ENER 400
3.0 ENER 437	ENER 301 and ENER 333 (ENER 333 concurrent enrolment allowed)
3.0 Approved elective	
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5 Electives are required

Prerequisites are in brackets

Choose four approved electives from the lists below and one humanities/social science elective

Approved electives - Petroleum

ENER 380 (ENIN 355)	ENER 484 (ENER 433 may be taken concurrently)
ENER 381 (ENGG 141, ENER 301)	ENER 485 (ENER 331, ENER 433, ENGG 303)
ENER 480 (ENER 431, may be taken concurrently, and ENGG 330)	ENER 490 (ENER 301 or ENEV 223)
ENER 481 (ENER 301 may be taken concurrently)	ENER 491 (ENER 301, ENER 335)
ENER 483 (ENER 435)	ENER 492 (ENIN 355)

Approved electives - Sustainable Energy

ENER 351 (ENIN 253, ENIN 355 and ENER 305) Concurrent enrolment is allowed for ENIN 355 and ENER 305	ENER 455 (ENER 305, PHYS 119)
ENER 451 (ENER 305, ENEL 280)	ENER 457 (ENER 305, CS110)
ENER 453 (ENER 305, ENIN 355)	

Approved Electives - Energy Transportation & Storage

ENER 371 (ENER 201 and ENIN 355 co-requisite)	ENER 473 (completion of 60 program credit hours)
ENER 373 (completion of 60 program credit hours)	ENER 475 (ENER 371)
ENER 471 (ENER 305, CS 110)	ENER 477 Completion of 60 program credit hours)

Social Science and Humanities Elective (choose one)

Any Faculty of Arts course or La Cité course

Total credit hours 136 (46 courses)

Non coop or internship term sequencing

Fall	Winter	Spring	Fall	Winter	Spring
1	2		3	4	6
Fall	Winter	Spring	Fall	Winter	
5	7		8	9	

Courses subject to change

Revised Feb 7, 2025

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Important Information

Selection of a Major for students admitted to Engineering General in their first year:

- Application submission starts March 1st
- To apply for a major, general engineering students must have completed or be currently registered in 24 of 30 credit hours (8 of the 10 courses) from TERM 1 and TERM 2. The courses that must be included are ENGG 100, ENGG 123, ENGG 140 and ENGL 100.

Selection of Major form is on the faculty website: <https://www.uregina.ca/engineering/students/student-forms.html>

Social Science/Humanities Elective: Students may use ECON 100 as a social science/ humanities elective if the course is taken before ECON 201.

Transfer credit for ENGL LV 100 may be used as a social science/humanities elective.

Credit received for STAT 100 and STAT 200 prior to joining the Faculty of Engineering will be accepted as three credit hours for STAT 289.

STAT 289 is available for students in their major; general engineering students cannot register in STAT 289.

FOLLOW PROGRAM SHEET IN SEQUENCE TO AVOID DELAYING GRADUATION