

# Bachelor of Applied Science in Energy Systems Engineering

## Energy Transportation and Storage Option

### 2024-2025

Term 1 (Fall)	Prerequisites
3.0 CHEM 104	CHEM 30 or CHEM 100 (65%)
3.0 ENGG 100	No prereq required
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 required
3.0 ENGL 100	No prereq required
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	GEOL 102 concurrent enrollment allowed
3.0 GEOL 102	No prereq required
3.0 MATH 217	MATH 111 and MATH 122
Term 4 (Winter, Spring/Summer)	
3.0 ENER 203	MATH 217 may be taken concurrently
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 and ECON 201
3.0 ENER 301	ENER 201 ENER 203
3.0 ENGG 330	CS 110, MATH 111, MATH122, STAT 289
Term 6 (Spring/Summer)	
3.0 BUS 260	ENGL 100 or ACAD 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	ENGG 140/ENGG 141
3.0 ENER 371	ENER 201 and ENIN 355 co-requisite
3.0 ENER 373	Completion of 60 program credit hours
3.0 GEOL 270	GEOL 102
Term 8 (Fall)	
1.0 ENER 400	Completion of all required 200,300 ENER courses and completion of 99 credit hours
3.0 ENER 471	ENER 305, CS 110
3.0 ENER 473	Completion of 60 program credit hours
3.0 ENER 475	ENER 371
3.0 Approved Elective	
3.0 Approved Elective	
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 477	Completion of 60 program credit hours
3.0 Approved elective	
3.0 Approved elective	
136.0	Total

### 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 331 (ENER 301)	ENER 480 (ENER 431 maybe be taken concurrently) and ENGG 330
ENER 333 (ENER 301, ENEV 261 concurrent enrollment for both)	ENER 481 (ENER 301 may be taken concurrently)
ENER 431 (ENER 331)	ENER 483 (ENER 435)
ENER 433 (ENER 201 and ENER 333 - ENER 333 may be taken concurrently)	ENER 484 (ENER 433 may be taken concurrently)
ENER 435 (ENER 301 and ENEV 261)	ENER 485 (ENER 331, ENER 433 and ENGG 303)
ENER 437 (ENER 301 and ENER 333 - ENER 333 may be taken concurrently)	ENER 490 (ENER 301 or ENEV 320 or ENEV 223)
ENER 380 (ENIN 355)	ENER 491 (ENER 301 and ENIN 355)
ENER 381 (ENGG 141 and ENER 301)	ENER 492 (ENIN 355)

#### Approved electives - Sustainable Energy

ENER 351 (ENER 305, ENIN 253, ENIN 355)	ENER 455 (ENER 305, PHYS 119)
ENER 451 (ENER 305, ENEL 280)	ENER 457 (ENER 305, PHYS 119)
ENER 453 (ENER 305, ENIN 355)	

**Choose one Social Science/Humanities Elective From the Faculty of Arts**

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

**FOLLOW PROGRAM SHEET IN SEQUENCE TO AVOID DELAYING GRADUATION**

Revised Oct 5, 2023

**Bachelor of Applied Science in Energy Systems Engineering  
Energy Transportation and Storage Option  
2024-2025**

**FOLLOW PROGRAM SHEET IN SEQUENCE TO AVOID DELAYED GRADUATION**

**Important Information**

**Selection of a Major:** application deadlines are April 1st, August 1st and December 1st.

**Eligibility:** Students admitted to first year with a major of ENGE apply to the major of their choice with a minimum of 8 of the 10 required courses in Year 1 which include ENGG 100, ENGG 123, ENGG 140 and ENGL 100.

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

**ECON 100 as a Social Science/Humanities Elective.** Students may use ECON 100 as a 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