

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 CS 115		CS 110 with 65%
3.0 ENEL 280		MATH 111
3.0 ENEV 223		ENGG 123
3.0 MATH 217		MATH 111 and MATH 122
3.0 PHYS 112		PHYS 109
Term 4 (Winter)		
3.0 CS 210		CS 115 and MATH 110
3.0 ENEL 281		ENEL 280 and MATH 217 (concurrent enrolment w/ MATH 217 allowed)
3.0 ENEL 282		ENEL 280
3.0 MATH 213		MATH 111 and MATH 122
3.0 STAT 289		MATH 111
Term 5 (Fall)		
3.0 BUS 260		ENGL 100
3.0 ENEL 383		ENEL 281 and ENEL 282
3.0 ENEL 384		ENEL 282
3.0 ENSE 352		CS 210 and ENEL 384 (concurrent enrolment. w/ ENEL 384 allowed)
3.0 PHYS 201		PHYS 119 and MATH 213 (concurrent enrolment w/ MATH 213 allowed)
Term 6 (Spring/Summer)		
3.0 BUS 210 or 250 or 285 or 302		BUS 210 & Bus 250 (Bus 260) BUS 285 (ECON 201) BUS 302 (completion of 30 credit hrs) Contact engg_undergrad@uregina.ca for registration assistance
3.0 CS 335		CS 210 and STAT 289
3.0 ECON 201		15 credits or ECON 100
3.0 ENEL 341		ENEL 281, MATH 217, STAT 289
3.0 ENEL 361		ENIN 233 or ENEL 280 and ENEL 281
Term 7 (Winter)		
3.0 ENEL 351		ENSE 352 and ENEL 384
3.0 ENEL 371		ENEL 281 and PHYS 201 or permission of ESE Program Chair
3.0 ENSE 350		MATH 110 and MATH 122 and CS 210
3.0 Approved Elective		
3.0 Approved Elective		
Term 8 (Fall)		
1.0 ENEL 400		ENEL 371, ENEL 341, ENEL 361, ENEL 383, ENEL 351 and completion of 99 credit hours or permission of ESE Program Chair
3.0 ENGG 303		STAT 289 and ECON 201
3.0 Approved Elective		
3.0 Approved Elective		
3.0 Approved Elective		
3.0 Approved Elective		
Term 9 (Winter)		
3.0 ENEL 417		ENEL 400 and ENEL 351
3.0 ENGG 401		ENEL 400
3.0 Approved Elective		
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Bachelor of Applied Science in Electronic Systems Engineering (ESE) 2025-2026 Program

Electives: Choose 7 courses from the four technical streams and the technical, software and risk and Industrial safety elective lists.

Students must complete at least two of the following four technical Streams:				
1. Communications		2. Micro-Electronics		
ENEL 442 (ENEL 341)		ENEL 452 (ENEL 351, CS 210)		
ENEL 443 (ENEL 442, CS 335)		ENEL 453 (ENEL 384)		
And 5 courses from the approved list		And 5 courses from the approved list		
3. Control		4. Power		
ENEL 462 (ENEL 361)		ENEL 472 (ENEL 371)		
ENEL 463 (ENEL 462)		ENEL 473 (ENEL 472)		
And 5 courses from the approved list		And 5 courses from the approved list		
Approved list includes Technical, Software, and Risk and Industrial Safety				
Technical Electives				
ENEL 395	ENEL 442	ENEL 462	ENEL 472	ENEL 473
ENEL 443	ENEL 452	ENEL 453	ENEL 463	ENEL 495
ENEV 261	ENIN 253	ENSE 481		
Software Electives (may choose one). These electives may not be offered regularly.				
CS 215	CS 330	CS 340	CS 350	
ENSE 271, ENSE 281, ENSE 406, ENSE 311, ENSE 412, ENSE 441 and ENSE 479				
Risk and Industrial Safety Electives (may choose one)				
ENEV 334, ENGG 411, ENIN 433, ENIN 440				
Social Science and Humanities Elective (choose one)				
Any Faculty of Arts course or La Cité course				
Natural Science Elective (choose one)				
Astronomy, Biology, Biochemistry, ESC, Physics, Chemistry (CHEM 100 <u>not</u> permitted)				

Total credit hours 136 (46 courses)

Non coop or internship term sequencing

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

Revised Feb 7, 2025 – Subject to Change

FOLLOW PROGRAM SHEET IN SEQUENCE TO AVOID DELAYED GRADUATION

Bachelor of Applied Science in Electronic Systems Engineering (ESE)

Important Information

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

- Application submission starts March 1.
- 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.

BUS 260 is used as the prerequisite for BUS 250 and BUS 210 for engineering students only. Contact the Engineering General Office for registration assistance.

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.

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