

# Diploma in Electronics and Computer Engineering – Renewable Energy

Program Plan for students who started September 2015

Year One – Non Co-op Students		
Quarter 1 September 2015		Requisite(s)
ECET 190	Electronics Project	Program Entry
ELEX 142	Introductory Circuit Analysis	Program Entry
MATH 174A	Mathematics for Electronics 1	Program Entry
PHYS 154	Technical Physics 3	Program Entry

Quarter 2 January 2016		Requisite(s)
ELEX 143	Electronic Devices 1	ELEX 142
ELEX 131	Engineering Applications in C	ELEX 161
ELEX 161	Digital Techniques 1	ELEX 142, ELEX 143
ENGL 170	Technical Writing	Program Entry
MATH 174B	Mathematics for Electronics 2	MATH 174A

Quarter 3 April 2016		Requisite(s)
ELEX 121	Renewable Energy Systems	
ELEX 162	Digital Techniques 2	ELEX 161
ELEX 167	Embedded Systems 1	ELEX 131, ELEX 161
MATH 175	Mathematics for Electronics 3	MATH 174B
COOP WEP		

Year Two – Non Co-op Students		
Fall September 2016		Requisite(s)
ECET 230	Object-Oriented Programming in Hardware	ELEX 131
ECET 242	Analog Electronics	ELEX 143
ECET 250	Analog Communications	ELEX 143
ECET 260	ARM Microcontrollers & the Internet of Things	ELEX 162, ELEX 167
ECET 280	Data Acquisition & Programmable Logic Controllers	ELEX 167
ECET 281	System Dynamics	Math 174B, Math 175

Winter January 2017		Requisite(s)
ECET 220	Industrial Electronics for Renewable Energies	ECET 242
ECET 221	Control Systems for Renewable Energies	ECET 242/ECET 281
ECET 231	CAD for Electronics	ECET 242/ECET 260
ECET 251	Digital Communications	ECET 250/ECET 280
ECET 261	Embedded Networking & Operating Systems	ECET 230/ECET 260
ECET 282	Digital Signal Processing	ECET 281

Fall September 2017		Requisite(s)
ECET 290	Applied Research Project	ECET 291, ECET 292
ECET 291	Engineering Project Management	Program Entry
ECET 292	Design for Manufacturing	Program Entry
ENGL 273	Technical Communication	ENGL 170, ECET 290

Winter January 2018		Bridge program to UVic starts (optional)

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ELEX 142	Introductory Circuit Analysis	Program Entry
MATH 174A	Mathematics for Electronics 1	Program Entry
PHYS 154	Technical Physics 3	Program Entry

Quarter 2 January 2016		Requisite(s)
ELEX 143	Electronic Devices 1	ELEX 142
ELEX 131	Engineering Applications in C	ELEX 161
ELEX 161	Digital Techniques 1	ELEX 142, ELEX 143
ENGL 170	Technical Writing	Program Entry
MATH 174B	Mathematics for Electronics 2	MATH 174A

Quarter 3 April 2016		Requisite(s)
ELEX 121	Renewable Energy Systems	
ELEX 162	Digital Techniques 2	ELEX 161
ELEX 167	Embedded Systems 1	ELEX 131, ELEX 161
MATH 175	Mathematics for Electronics 3	MATH 174B
COOP WEP		

Year Two – Co-op Students		
Fall September 2016		Requisite(s)
ECET 230	Object-Oriented Programming in Hardware	ELEX 131
ECET 242	Analog Electronics	ELEX 143
ECET 250	Analog Communications	ELEX 143
ECET 260	ARM Microcontrollers & the Internet of Things	ELEX 162, ELEX 167
ECET 280	Data Acquisition & Programmable Logic Controllers	ELEX 167
ECET 281	System Dynamics	Math 174B, Math 175

Winter January 2017		COOP

Spring/Summer April 2017		COOP

Fall September 2017		Requisite(s)
ECET 290	Applied Research Project	ECET 291, ECET 292
ECET 291	Engineering Project Management	Program Entry
ECET 292	Design for Manufacturing	Program Entry
ENGL 273	Technical Communication	ENGL 170, ECET 290

Winter January 2018		Requisite(s)
ECET 220	Industrial Electronics for Renewable Energies	ECET 242
ECET 221	Control Systems for Renewable Energies	ECET 242/ECET 281
ECET 231	CAD for Electronics	ECET 242/ECET 260
ECET 251	Digital Communications	ECET 250/ECET 280
ECET 261	Embedded Networking & Operating Systems	ECET 230/ECET 260
ECET 282	Digital Signal Processing	ECET 281

# Diploma in Electronics and Computer Engineering – Renewable Energy

Program Plan for students who started September 2015

Year One – Internship Students Bridging to UVic		
Quarter 1 September 2015		Requisite(s)
ECET 190	Electronics Project	Program Entry
ELEX 142	Introductory Circuit Analysis	Program Entry
MATH 174A	Mathematics for Electronics 1	Program Entry
PHYS 154	Technical Physics 3	Program Entry

Quarter 2 January 2016		Requisite(s)
ELEX 143	Electronic Devices 1	ELEX 142
ELEX 131	Engineering Applications in C	ELEX 161
ELEX 161	Digital Techniques 1	ELEX 142, ELEX 143
ENGL 170	Technical Writing	Program Entry
MATH 174B	Mathematics for Electronics 2	MATH 174A

Quarter 3 April 2016		Requisite(s)
ELEX 121	Renewable Energy Systems	
ELEX 162	Digital Techniques 2	ELEX 161
ELEX 167	Embedded Systems 1	ELEX 131, ELEX 161
MATH 175	Mathematics for Electronics 3	MATH 174B
COOP WEP		

Year Two – Internship Students Bridging to UVic		
Fall September 2016		Requisite(s)
ECET 230	Object-Oriented Programming in Hardware	ELEX 131
ECET 242	Analog Electronics	ELEX 143
ECET 250	Analog Communications	ELEX 143
ECET 260	ARM Microcontrollers & the Internet of Things	ELEX 162, ELEX 167
ECET 280	Data Acquisition & Programmable Logic Controllers	ELEX 167
ECET 281	System Dynamics	Math 174B, Math 175

Winter January 2017		Requisite(s)
ECET 220	Industrial Electronics for Renewable Energies	ECET 242
ECET 221	Control Systems for Renewable Energies	ECET 242/ECET 281
ECET 231	CAD for Electronics	ECET 242/ECET 260
ECET 251	Digital Communications	ECET 250/ECET 280
ECET 261	Embedded Networking & Operating Systems	ECET 230/ECET 260
ECET 282	Digital Signal Processing	ECET 281

Spring/Summer April 2017		COOP

Fall September 2017		Requisite(s)
ECET 290	Applied Research Project	ECET 291, ECET 292
ECET 291	Engineering Project Management	Program Entry
ECET 292	Design for Manufacturing	Program Entry
ENGL 273	Technical Communication	ENGL 170, ECET 290

Winter January 2018		Bridge program to UVic starts

# Diploma in Electronics and Computer Engineering – Renewable Energy

Program Plan for students who started September 2015

## Overview

As you may be aware, the Diploma in Electronics and Computer Engineering – Renewable Energy is moving over to the semester system September 2016. The purpose of this document is to show the courses and terms that students starting in September 2015 will need to take to finish the program.

## Program Completion Requirements

To qualify for a Diploma in Electronics and Computer Engineering – Renewable Energy, a student must complete all program courses including Workplace Education Prep, and achieve an overall GPA of at least 2.0 in order to qualify for a diploma.

## Admission Requirements to Electrical and Computer Bridge to UVic

Graduates of the Diploma in Electronics and Computer Engineering – Renewable Energy program with a GPA of at least 5.0 (B) and no grade less than a “C” in any course may apply to the Electrical & Computer Engineering Bridge program which bridges to the third year of Electrical or Computer Engineering at the University of Victoria.

## Students who cannot follow the Program Plan as outlined

Students who cannot take the program on a full time basis need to connect with the School of Trades and Technology Academic Advisor to discuss course planning: [academicadvising@camosun.bc.ca](mailto:academicadvising@camosun.bc.ca).

## Who to Contact:

- Questions about program credential requirements contact the **School of Trades and Technology Academic Advisor**: [academicadvising@camosun.bc.ca](mailto:academicadvising@camosun.bc.ca)
- Questions about the program content, contact the **Chair of Electronics and Computer Engineering**: [duncana@camosun.bc.ca](mailto:duncana@camosun.bc.ca) | 250.370.4433
- Questions about co-operative education, work terms, internships: **Co-operative Education & Student Employment**: [co-op@camosun.bc.ca](mailto:co-op@camosun.bc.ca) | 250-370-4410