



# CURRICULUM CHANGES

## Water Resources Engineering – Co-op

### What's Different?

#### Courses Added to WRE

For *new students* starting in Fall 2019 only

- 0.50 PHYS\*1010 Introductory Electricity and Magnetism

#### Courses Removed from WRE

For *new students* starting in Fall 2019 only

- 0.50 ENGG\*2450 Electric Circuits

#### Changes to Course Content and Semester Offerings – Affects *everyone*

##### 0.50 PHYS\*1130 Physics with Applications

- Offering changed to fall semester only.
- Overlapping content with PHYS\*1010 removed and replaced with introductory statics content from ENGG\*1210 Engineering Mechanics I.
- PHYS\*1130 is now a prerequisite to ENGG\*1210 effective W20.
- Prerequisite for PHYS\*1130 changed to (4U Calculus and Vectors or equivalent), (4U Physics or equivalent).

##### 0.50 ENGG\*1210 Engineering Mechanics I

- Deeper treatment of dynamics content.
- Prerequisites, MATH\*1200 and PHYS\*1130 added effective W20.

##### 0.50 PHYS\*1010 Physics with Applications

- Overlapping content with PHYS\*1130 removed and replaced with introductory material from ENGG\*2450 Electric Circuits.

##### 0.50 ENGG\*2450 Electric Circuits

- Deeper treatment of remaining content.
- PHYS\*1130 removed as prerequisite to ENGG\*2450.

### I'M A WATER RESOURCES ENGINEERING STUDENT WHO STARTED IN FALL 2018 OR EARLIER

How do these changes actually affect me?

*ENGG\*2450 Electric Circuits is still a required course for Water Resources Engineering students who are following 2018 calendar requirements or older calendar requirements.*

*If you started in Winter 2019 or Fall 2018 or earlier, you must complete ENGG\*2450 to meet your degree program requirements.*

Returning students who are missing one or more of the prerequisites to register for ENGG\*2400 in Fall 2019, should meet with a program counsellor to discuss course planning options. ENGG\*2400 is a prerequisite to ENGG\*2450.

The version of ENGG\*2450 that was offered in W19 will be the same in W20 to meet the progression requirements of the 2018 cohort. However, the revised content version of ENGG\*2450 will become effective in W21, and the PHYS\*1010 prerequisite will be enforced.

## Changes at a Glance

2018 Cohort (and older) – Previous Curriculum	
FALL (SEMESTER 1)	WINTER (SEMESTER 2)
CHEM*1040 General Chemistry I CIS*1500 Introduction to Programming ENGG*1100 Engineering Design I MATH*1200 Calculus I One of: HIST*1250 Science and Technology in a Global Context or ENGG*1210 Engineering Mechanics I	CHEM*1050 General Chemistry II ENGG*1500 Engineering Analysis I MATH*1210 Calculus II PHYS*1130 Physics with Applications One of: HIST*1250 Science and Technology in a Global Context or ENGG*1210 Engineering Mechanics I
FALL (SEMESTER 3)	WINTER (SEMESTER 4)
COOP*1100 Introduction to Co-operative Education ENGG*2400 Engineering Systems Analysis GEOG*2000 Geomorphology MATH*2270 Applied Differential Equations One of: BIOL*1090 Introduction to Molecular and Cellular Biology MICR*2420 Introduction to Microbiology One of: ENGG*2100 Engineering and Design II STAT*2120 Probability and Statistics for Engineers One of: ENGG*2120 Material Science ENGG*2230 Fluid Mechanics	ENGG*2450 Electric Circuits ENGG*2550 Water Management ENGG*2560 Environmental Engineering Systems MATH*2130 Numerical Methods One of: ENGG*2100 Engineering and Design II STAT*2120 Probability and Statistics for Engineers One of: ENGG*2120 Material Science ENGG*2230 Fluid Mechanics
2019 Cohort – Revised Curriculum	
FALL (SEMESTER 1)	WINTER (SEMESTER 2)
CHEM*1040 General Chemistry I ENGG*1100 Engineering Design I ENGG*1500 Engineering Analysis I MATH*1200 Calculus I PHYS*1130 Physics with Applications	CHEM*1050 General Chemistry II CIS*1500 Introduction to Programming ENGG*1210 Engineering Mechanics I MATH*1210 Calculus II PHYS*1010 Introductory Elec & Mag
FALL (SEMESTER 3)	WINTER (SEMESTER 4)
COOP*1100 Introduction to Co-operative Education ENGG*2230 Fluid Mechanics ENGG*2400 Engineering Systems Analysis GEOG*2000 Geomorphology MATH*2270 Applied Differential Equations STAT*2120 Probability and Statistics for Engineers One of: BIOL*1090 Introduction to Molecular and Cellular Biology MICR*2420 Introduction to Microbiology	ENGG*2100 Engineering and Design II ENGG*2120 Material Science ENGG*2550 Water Management ENGG*2560 Environmental Engineering Systems MATH*2130 Numerical Methods 0.50 Restricted electives

Note: HIST\*1250 is moved to SEM 7 – Winter (Co-op)

Book an Appointment at:  
[uoquelp.ca/engineering/webform/appointment-form](http://uoquelp.ca/engineering/webform/appointment-form)