

Civil & Environmental Engineering curriculum revisions, effective Fall 2020

Background: Recent changes to state and university general education requirements enable us to use PHY 2049C as a general liberal studies elective. This gave us an opportunity to update our curriculum. Changes from 2012 to 2020 curricula are explained below. See opposite page for Frequently Asked Questions.

Old 2012+ vs. New 2020+ comparison table:

Change	Old 2012+ curriculum map	New 2020+ curriculum map	Change in suggested term	Change in credit hours
1	Because PHY 2049C did not count as a general liberal studies elective, six liberal studies courses were required in Social Sciences/History/Humanities-Cultural Practices/Ethics areas.	Because PHY 2049C now counts as a general liberal studies elective, only five Social Sciences/History/Humanities-Cultural Practices/Ethics courses are required. A third Group B Engineering/Math/Science Elective has replaced a liberal studies elective in the curriculum.	Term 6	no change
2	EML 3100 Thermodynamics AND EEL 3003 Intro to Electrical Engineering (5 credit hours total)	EML 3100 Thermodynamics (2 credit hours) OR EEL 3003 Intro to Electrical Engineering (3 credit hours) The 128 credit hours required for CEE degrees is calculated using EEL 3003. Students who take EML 3100 should see their advisor or academic coordinator to ensure that their degree will be a minimum of 128 credit hours total.	Term 5 to 6	5 to 2 or 3
* Note 1: For students who have already taken both EML 3100 and EEL 3003, switching to the new map may result in excess credit hours.				
3	EGN 2123 Engineering Graphics (2 credit hours)	New CGN 3326 Civil Eng. Graphics & Design Tools (3 credit hours)	Term 3 to 5	2 to 3
* Note 2: Prior to the first offering of CGN 3326, students will be permitted to use EGN 2123 instead, whether they are on the old or new map. However, for students who are on the new map, they may have a one credit hour shortfall in graduation requirements; if needed, the additional credit being added to CGN 4800 or any additional course taken but not required on the new map may be used to make up this shortfall. Once CGN 3326 becomes available for students to take, students on the new map should not take EGN 2123, as it will not be applied towards graduation requirements. Students who remain on the old map may use EGN 2123 towards graduation requirements, regardless of the semester in which they take it.				
4	CGN 4800 Pre-Senior Design and Professional Issues (2 credit hours)	CGN 4800 Senior Design I (3 credit hours)	no change	2 to 3
* Note 3: Students who do not need the additional credit hour may elect to take CGN 4800 for 2 credit hours. This may help students who remain on the old map to avoid excess credit hours.				
5	CGN 4802 Senior Design	CGN 4802 Senior Design II	no change	no change
6	For Civil Engineering Majors: ENV 4001 Environmental Engineering OR CWR 4XXX (any 4000-level CWR course not meeting another requirement)	For Civil Engineering Majors: ENV 4XXX (any 4000-level ENV course not meeting another requirement) OR CWR 4XXX (any 4000-level CWR course not meeting another requirement)	no change	no change
	For Environmental Engineering Majors: ENV 4001 Environmental Engineering AND CWR 4XXX (any 4000-level CWR course not meeting another requirement)	For Environmental Engineering Majors: ENV 4XXX (any 4000-level ENV course not meeting another requirement) AND CWR 4XXX (any 4000-level CWR course not meeting another requirement)	no change	no change
* Note 4: Students will be allowed to take ENV 4XXX instead of ENV 4001, regardless of which map they are on. This change gives students more flexibility. This allowance will be effective immediately for all students on all maps.				

Frequently Asked Questions regarding CEE Fall 2020 curriculum revision

Why the changes?

Change 1 gives students more depth in the CEE discipline.

Change 2 provides less breadth across engineering disciplines, but more depth in the CEE discipline.

Change 3 provides instruction on computer tools specifically that CEE students will need for later courses and their careers.

Change 4 gives students more time and instruction on their senior design projects.

Change 5 is a name change only.

Change 6 has no substantive effect on degree requirements, but provides students more flexibility.

Which map will apply to me?

If you declared the CEE major...	You will be...	You should...
During or after Fall 2020	Placed into the new 2020 map.	Do nothing. This will be done automatically for you by the department.
Before Fall 2020	Permitted to remain on the old 2012 map <i>or</i> switch to the new 2020 map.	Prior to the last day of Fall 2020 term , notify the department of your intention to either remain on the old map or switch to the new map.

Which map will be best for me?

- > In general, students who have completed Term 4 or fewer terms **will benefit** from switching to the new map.
- > Students who are in Term 5 or 6 **may benefit** from switching, depending on which courses they have already taken.
- > Students who are in Term 7 or 8 typically **will not benefit** from switching, if they have already met most 2012 map requirements.

Can I mix the 2012 and 2020 maps?

No, students must meet all requirements of their map. However, there are three exceptions: see Notes 2, 3 and 4 on the **Old 2012+ vs. New 2020+ comparison table** .

Help! I can't decide.

Contact your advisor or academic coordinator to determine which map makes sense for you. We want to help you choose the right map and avoid taking excess credit hours.