

2019-2020 Curriculum BS in Chemical Engineering (B.S.Ch.E.) Summary of Changes & FAQ

2018-2019 Catalog Year (Current Curriculum)	2019-2020 Curriculum (New Curriculum)
Minimum hours required for B.S.Ch.E.	Minimum hours required for B.S.Ch.E.
123	120
Minimum grade required for courses	Minimum grade required for courses
"C" for UNM Core, courses for admission to BSCHE degree program, and courses that are pre-reqs to non-CBE courses; "C-" for all other courses	"C-" for CBE courses, "C" for all other courses
UNM Core Curriculum	UNM Core Curriculum
Writing & Speaking (9 hrs)- ENGL 110 (or 112 or 113), ENGL 120, ENGL 219	Writing & Speaking (6 hrs)- ENGL 110 (or 112 or 113), ENGL 120
Social & Behavioral Sciences (6 hrs)-ECON 105 & Elective	Social & Behavioral Sciences (3 hrs)-Elective
Humanities (6 hrs)-Electives	Humanities (3 hrs)-Electives
Courses Removed from Curriculum	Courses Added to Curriculum
ECON 105: Introductory Macroeconomics (3 hrs) ENG 301: Fundamentals of Engineering: Dynamics (1 hr) ENG 302: Fundamentals of Engineering: Electronic Circuits (1 hr) CBE 361: Biomolecular Engineering (3 hrs)	CE 350: Engineering Economy (3 hrs) CBE 213: Laboratory Electronics for Nuclear, Chemical and Biological Engineers (3 hrs) BIOL 201L: Molecular & Cell Biology (4 hrs) CHEM 302: Organic Chemistry (3 hrs) CHEM 312: Physical Chemistry (3 hrs)
Credit Hours	Credit Hours
CBE 318L: Chemical Engineering Laboratory I (1 hr)	CBE 318L: Chemical Engineering Laboratory I: Introduction to Experimentation (3 hr)
CBE 317: Numerical Methods for Chemical & Biological Engineering (2 hrs)	CBE 317: Numerical Methods for Chemical & Biological Engineering (3 hrs)
CBE 486: Introduction to Statistics and Design of Experimentation (2 hrs)	CBE 486: Introduction to Statistics and Design of Experimentation (3 hrs)
Concentrations	Concentrations
<u>Bioengineering (BIOE)</u>	<u>Bioengineering (BIOE)</u>
BIOL 201L (4 hrs), CHEM 302 (3 hrs), CHEM 312 (3 hrs), Tech Elective (3 hrs), Tech Elective-Engineering (3 hrs)	Tech Electives (6 hrs) - See Tech Elective Sheet for a recommended list of courses for the BIOE concentration
<u>Chemical Process Engineering (CHPE)</u>	<u>Chemical Process Engineering (CHPE)</u>
CHEM 302 (3 hrs), CHEM 311 (3 hrs), CHEM 312 (3 hrs), Tech Elective (3 hrs), Tech Elective-Engineering (3 hrs)	Tech Electives (6 hrs) - See Tech Elective Sheet for a recommended list of courses for the CHPE concentration
<u>Environmental Engineering (ENEN)</u>	<u>Environmental Engineering (ENEN)</u>
BIOL 201L (4 hrs), CHEM 302 (3 hrs), CHEM 312 (3 hrs), Tech Elective (3 hrs), Tech Elective-Engineering (3 hrs)	Tech Electives (6 hrs) - See Tech Elective Sheet for specific tech elective options for the ENEN concentration
<u>Materials Processing (MAPR)</u>	<u>Materials Processing (MAPR)</u>
CHEM 311 (3 hrs), CHEM 312 (3 hrs), [CHEM 431, 471: Polymer Sci, or 471: Chem/Phys at the Nanoscale (3 hrs)], Tech Elective (3 hrs), Tech Elective-Engineering (3 hrs)	Tech Electives (6 hrs) - See Tech Elective Sheet for a recommended list of courses for the MAPR concentration
<u>Semiconductor Manufacturing (SCMF)</u>	<u>Semiconductor Manufacturing (SCMF)</u>
CHEM 311 (3 hrs), CHEM 312 (3 hrs), CHEM 431 (3 hrs), ECE 371 (3 hrs), Tech Elective (3 hrs)	CHEM 311 (3 hrs), ECE 371 (3 hrs)

Frequently Asked Questions (FAQ)

How do I move to the new curriculum under the 2019-2020 catalog year?

Pre-Chemical Engineering Students - When you meet with Sarah or Krista for advisement in Spring 2019, they will ask you if you want to stay in your current catalog year or move to the 2019-2020 catalog year. They will mark your request in a spreadsheet and will make the update for you in Summer 2019 when they have access to do so.

BSCHE Students - There will be a question on the UG Advisement Form for Spring 2019 that will ask you if you want to stay in your current curriculum or move to the new curriculum. Once you and your faculty advisor sign off on your decision and you submit the form to Sarah, she will make the update for you in Summer 2019 when she has access to do so.

I want to change to the new curriculum under the 2019-2020 catalog year but I have already taken ECON 105. Do I have to take CE 350?

No. You may substitute ECON 105 for CE 350 if you took ECON 105 prior to Summer 2019. However, if you have not already taken your UNM Core: Social & Behavioral Sciences elective we suggest you use ECON 105 to satisfy that requirement and then take CE 350 as required under the new curriculum.

I want to change to the new curriculum under the 2019-2020 catalog year but I have already taken ENG 301 and ENG 302. Do I have to take CBE 213?

No. You may substitute ENG 301 and ENG 302 for CBE 213 if you took them prior to Summer 2019. However, you must make sure that the missing credit hour is made up elsewhere so that you meet the minimum 120 hours required to graduate.

I want to change to the new curriculum under the 2019-2020 catalog year but I have already taken CBE 361. Do I have to take BIOL 201L?

No. We will allow you to substitute CBE 361 for BIOL 201L if you took it prior to Summer 2019. However, you must make sure that the missing credit hour is made up elsewhere so that you meet the minimum 120 hours required to graduate.

I want to stay in my current curriculum under my catalog year but I have not taken CBE 361. Which class do I take instead?

If your concentration is CHPE, MAPR, or SCMF you will take BIOL 201L.

If your concentration is BIOE or ENEN choose a course from the recommended list of technical electives for BIOE students.

I want to change to the new curriculum under the 2019-2020 catalog year but I have already completed one or both of my technical electives. The technical electives I took are not on the new list of technical electives for my concentration under the new curriculum. Do I need to take more technical electives?

No. During this transition time only, if you took a technical elective while you were in an older catalog year, we will honor that and allow you to use it under the new catalog year. If you, however, have not yet completed one or more of your technical electives and you move to the new curriculum, you will need to choose a technical elective from the new list of technical electives for your concentration.

I want to take a technical elective that is not on the technical elective sheet. How do I get that approved?

Please use the "Technical Elective Substitution Form" which can be downloaded on the CBE Dept Website, here: <https://cbe.unm.edu/students/cbe-student-forms.html>