

## SUGGESTED SEQUENCE AT LORAIN COUNTY COMMUNITY COLLEGE

### First Year

Fall Semester	Credits	Spring Semester	Credits
ENGL 161 College Composition I (grade of C- or higher required)	3	ENGL 162 College Composition II (grade of C- or higher required)	3
CHMY 171 General Chemistry I	5	CHMY 172 General Chemistry II	5
MTHM 181 Calculus I	5	MTHM 182 Calculus II	5
SDEV 101 College 101	1	Arts & Humanities Elective	3
Social Science Elective	3		
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16</b>

### Second Year

Fall Semester	Credits	Spring Semester	Credits
CHMY 271 Organic Chemistry I	5	CHMY 272 Organic Chemistry II	5
PHYC 251 College Physics I	5	PHYC 252 College Physics II	5
MTHM 281 Multivariable Calculus	4	Social Science Elective	3
		Arts & Humanities Elective	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
			<b>63</b>
			<b>Associate of Science Awarded</b>

*Completion of the AS is required. By the end of the 4th semester, students should have completed LCCC's AS requirements and have earned Junior standing.*

## SUGGESTED SEQUENCE AT CSU

### Third Year

Fall Semester	Credits	Spring Semester	Credits
CHM 311/316 Quantitative Analysis/Lab	5	CHM 322 Physical Chemistry II	3
CHM 321 Physical Chemistry I	3	CHM 412/416 Advanced Instrumental Analysis/Lab	6
CHM 411 Instrumental Analysis	3	CHM 431 Advanced Organic Chemistry	2
CHM 426 Physical Chemistry Lab I	3	CHM 427 Physical Chemistry Lab II	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>

### Fourth Year

Fall Semester	Credits	Spring Semester	Credits
CHM 441 Inorganic Chemistry	3	CHM 489 Senior Research	3
CHM 446 Inorganic Chemistry Lab	2	CHM 472 Student Colloquium	1
CHM 402 Biochemistry I	3	CHM 403 Biochemistry II	3
CHM 471 Faculty Colloquium	1	CHM 301 Research Methods in Chemistry	2
CHM Elective (300/400 level)	3	CHM Elective (300/400 level)	3
General Elective	2	General Elective	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
			<b>120</b>
			<b>Bachelor of Science Awarded</b>

Pre-Requisites:

College-ready in MATH and ENG

2 years of the same foreign language completed in high school

*Students who do not meet these pre-requisites may need to complete additional credits*

Students who do not complete the Associate of Science degree are responsible for the completion of the entire General Education Requirements at Cleveland State University.

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This map represents one example of how to complete the AS and BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options.

*CSU requires a minimum of 120 total credit hours for graduation. At least 30 credits must be completed in-residence at CSU. At least 24 of the in-residence credits must be completed at the upper division (300/400) level. An overall total of 42 upper division (300/400) level credits are required. Students deficient in total credits or in-residence must take additional elective credits to meet the minimum requirements. Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.*