

**Critical requirements are boldface in shaded areas**

Course Subject and Title	Credit Hours	Upper Division	Min. Grade	Important Notes
<b>Semester One: [14 Credit Hours]</b>				
<b>This program meets the minimum requirements for certification by the American Chemical Society</b>				
<b>CHEM 10060 General Chemistry I or CHEM 10960 Honors General Chemistry</b>	<b>4-5</b>			
<b>CHEM 10062 General Chemistry I Laboratory</b>	<b>0-1</b>			<b>Take only if CHEM 10060 is selected</b>
<b>MATH 12002 Analytic Geometry and Calculus I</b>	<b>5</b>			<b>Fulfills LER Mathematics and Critical Reasoning</b>
ENG 11011 College Writing I or LER Humanities or Fine Arts	3			Enrollment based on placement tests; ENG 11011 fulfills LER Composition. Visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" for course lists
US 10097 Destination Kent State: FYE	1			Not required for transfer students with 25 credits
<b>Semester Two: [16 Credit Hours]</b>				
<b>CHEM 10061 General Chemistry II or CHEM 10961 Honors General Chemistry</b>	<b>4-5</b>			<b>If CHEM 10060 was taken; select CHEM 10061; If CHEM 10960 was taken, select CHEM 10961</b>
<b>CHEM 10063 General Chemistry II Laboratory</b>	<b>0-1</b>			<b>Take only if CHEM 10061 is selected</b>
<b>MATH 12003 Analytic Geometry and Calculus II</b>	<b>5</b>			
LER Humanities or Fine Arts or ENG 11011 College Writing I	3			Enrollment based on placement tests; ENG 11011 fulfills LER Composition. Should fulfill diversity requirement; visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" and "diversity" for course lists
LER Social Sciences	3			
<b>Semester Three: [15 Credit Hours]</b>				
<b>CHEM 30475 Organic Chemistry Laboratory I</b>	<b>1</b>	<b>■</b>		
<b>CHEM 30481 Organic Chemistry I</b>	<b>3</b>	<b>■</b>		<b>Offered in fall only</b>
<b>MATH 22005 Analytic Geometry and Calculus III</b>	<b>3</b>			
<b>PHY 23101 General University Physics I</b>	<b>5</b>			<b>Fulfills LER Basic Sciences</b>
ENG 21011 College Writing II or LER Humanities	3			ENG 21011 fulfills LER Composition. Visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" for course lists
<b>Semester Four: [14 Credit Hours]</b>				
<b>CHEM 30301 Inorganic Chemistry I</b>	<b>2</b>	<b>■</b>		<b>Offered in spring only</b>
<b>CHEM 30476 Organic Chemistry Laboratory II</b>	<b>1</b>	<b>■</b>		<b>Offered in spring only</b>
<b>CHEM 30482 Organic Chemistry II</b>	<b>3</b>	<b>■</b>		<b>Offered in spring only</b>
<b>PHY 23102 General University Physics II</b>	<b>5</b>			<b>Fulfills LER Basic Sciences</b>
LER Humanities or ENG 21011 College Writing II	3			ENG 21011 fulfills LER Composition. Visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" for course lists
<b>Semester Five: [16-17 Credit Hours]</b>				
<b>CHEM 30105 Analytical Chemistry I</b>	<b>3</b>	<b>■</b>		<b>Offered in fall only</b>
<b>CHEM 30107 Analytical Chemistry Laboratory I</b>	<b>1</b>	<b>■</b>	<b>C</b>	<b>Fulfills writing-intensive course requirement; offered in fall only</b>
<b>CHEM 40477 Intermediate Organic Chemistry Laboratory</b>	<b>1</b>	<b>■</b>		<b>Offered in fall only</b>
<b>CHEM 40483 Intermediate Organic Chemistry</b>	<b>1</b>	<b>■</b>		<b>Offered in fall only</b>
<b>CHEM 40555 Elementary Physical Chemistry</b>	<b>3</b>	<b>■</b>		<b>Offered in fall only</b>
Foreign Language Elementary I	4-5			
LER Social Sciences	3			Should fulfill diversity requirement if not satisfied earlier; visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" and "diversity" for course lists

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<b>Semester Six: [15-16 Credit Hours]</b>				
CHEM 30106 Analytical Chemistry II	2	■		Offered in spring only
CHEM 30108 Analytical Chemistry Laboratory II	2	■	C	Fulfills writing-intensive course requirement; offered in spring only
CHEM 40556 Elementary Physical Chemistry	3	■		Offered in spring only
CHEM 40568 Elementary Physical Chemistry Laboratory	1	■		Offered in spring only
Foreign Language Elementary II	4-5			
LER Fine Arts	3			Should fulfill diversity requirement if not satisfied earlier; visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" and "diversity" for course lists
<b>Semester Seven: [15 Credit Hours]</b>				
CHEM 40302 Inorganic Chemistry II	2	■		Offered in fall only
CHEM 40557 Physical Chemistry Laboratory	2	■		Offered in fall only
LER Additional	3			Should fulfill diversity requirement if not satisfied earlier; visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" and "diversity" for course lists
CHEM 40000-Level Elective	3	■		Must be approved by advisor
General Electives (1 credit must be upper division)	5			
<b>Semester Eight: [16 Credit Hours]</b>				
CHEM 30284 Introductory Biological Chemistry	4	■		Offered in spring only
CHEM 40303 Inorganic Chemistry III	2	■		Offered in spring only
CHEM 40364 Intermediate Inorganic Chemistry Laboratory	1	■		Offered in spring only
LER Additional	3			Should fulfill diversity requirement if not satisfied earlier; visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "LER" and "diversity" for course lists
General Electives (lower or upper division)	6			Number of credits required depends on meeting minimum 121 credit hours and 42 upper-division hours

### Graduation Requirements Summary

Total Hours	Upper-Division Hours	Liberal Education Requirements Hours	Diversity Course Global / Domestic	Writing-Intensive	Minimum	
					Major GPA	Overall GPA
121	42	45	LER or General Electives	CHEM 30107 or CHEM 30108	2.0	2.0

#### Liberal Education Requirements (LER)

Students must complete a minimum 36 credit hours of Liberal Education Requirements. Colleges or degree programs may specify certain courses to fulfill the requirements. Courses in the students' major field will not count toward the completion of any LER. Honors equivalents shall satisfy the LER. None of the courses on the LER list may be taken with a pass/fail grade.

#### Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic focus and one with a global focus. One course must be come from the LER and cannot be in the student's major. The second course may be taken as a second LER; or within a major or minor; or as a general elective; or, with dean's approval, by completing one semester of study in another country.

#### Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade.

#### Upper-Division Requirement

In general, baccalaureate programs require the successful completion of at least 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.