

**Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2017-18**

**NAME:**

**B.S. BIOCHEMISTRY - CHEB (Pre-Health) (CIP 26.0202)**

**DATE:**

English Composition Placement is:  
 ACT ENGL score 21 or above  
 SAT Verbal score 501 or above  
 Register for ENGL-T122 \_\_\_\_\_  
 ACT ENGL score 20 or below  
 SAT Verbal score 500 or below  
 Register for ENGL-A100 \_\_\_\_\_

**ALEKS MATH COURSE PLACEMENT**  
 76-100, MathA257, Calculus I \_\_\_\_\_  
 \_\_\_\_\_  
 46-75, MathA118, Pre-Calculus \_\_\_\_\_  
 \_\_\_\_\_  
 0-45, MathA092, Fundamentals of Algebra \_\_\_\_\_  
 \_\_\_\_\_  
*(not counted in final degree credits)*

<b>MAJOR.....</b>	<b>39 Crs</b>
General Chem I	
A105 _____	3 _____
General Chem I - Lab	
A107 _____	1 _____
General Chem II	
A106 _____	3 _____
General Chem II - Lab	
A108 _____	1 _____
Organic Chem I	
A300 _____	3 _____
Organic Chem I - Lab	
A310 _____	1 _____
Organic Chem II	
A301 _____	3 _____
Synthesis & Characterization	
A314 _____	2 _____
Inorganic Chem I	
A350 _____	3 _____
Physical Chem I	
A306 _____	3 _____
Integrated Chem Lab I	
A320 _____	3 _____
Biochemistry I	
A400 _____	3 _____
Biochemistry I - Lab	
A402 _____	1 _____
Biochemistry II	
A401 _____	3 _____
Capstone Presentation	
A493 _____	1 _____
5 Crs. Chem Electives, A300-400	Crs Grade

<b>ADJUNCT.....</b>	<b>20 Crs</b>
Sci II: PhysA102/A104 (Electromag & Relativity/Lab) _____	4+1 _____
Calculus II	
Math-A258 _____	4 _____
Biol Elect _____	4 _____
Biol Elect _____	4 _____
Sci/Math Elect* _____	3 _____
*Choose from Math, Phys, Biol, or Geol.	
<b>GENERAL ELECTIVES.....</b>	<b>16 Crs</b>
_____	3 _____
_____	3 _____
_____	3 _____
_____	3 _____
_____	1 _____

**DRAFT**

**LOYOLA CORE - 42 Credits**

<b>FOUNDATION COURSES</b>	<b>Crs/Grade</b>
First-Year Seminar T121 _____	3 _____
Engl T122: Critical Reading and Writing _____	3 _____
Math A257: Calculus I _____	4 _____
Sci I: Phys-A101/A103 (Intro Mechanics/Lab) _____	4/1 _____
	<b>15</b>

<b>KNOWLEDGE-VALUE COURSES</b>	
Creative Arts and Cultures _____	3 _____
Hist I: T122/Emerging World or T124/Modern* _____	3 _____
*Choice determines Hist II course below.	
Hist II: _____	3 _____
*If T122 taken above, take HIST-Q###; if T124 above, take HIST-P###	
Phil I: Reasoning _____	3 _____
Phil II: Knowledge & Morality _____	3 _____
Rels I: Christian Theology _____	3 _____
Rels II: World Religions _____	3 _____
Sci II: (Fulfilled in Adjuncts) _____	0 _____
Social Science _____	3 _____
Writing About Literature _____	3 _____
	<b>27</b>

<b>LANGUAGE OR COMPUTER PROGRAMMING.....</b>	<b>3 Crs</b>
A) Choice of either spoken or classical language at the A101 level. Language above A101 not required for Chemistry Majors. If place at A100 level, take A100 & A101. A100 credits will count in General Elective.	
Placement _____ /LANG A101 _____	3 _____
B) Intro to Programming I & II: COSC A211 is the prerequisite for COSC A212. Credits for COSC A211 will count in General Elective.	
COSC A211 (check-off <input type="checkbox"/> ) & COSC A212 _____	3 _____

**CHEMISTRY DEPARTMENTAL HONORS Students must:**  
 1) Earn 2.5 Loyola Cum GPA & 3.0 Major GPA, 2) engage in research approved by the dept, & 3) complete 4 credits of CHEM-A498 or the equivalent.

**ETS EXAM**  
 All majors must take the ETS CHEM field exam, CHEM-A491, (Pass/Fail) & complete an exit survey in last semester prior to graduation.  
**CHEM-A491** \_\_\_\_\_ **0**

Loyola Core.....	42 crs
Language.....	3 crs
Major.....	39 crs
Adjunct.....	20 crs
General Elective.....	16 crs
<b>Total.....</b>	<b>120 crs</b>

Loyola Core requirements are governed by the catalog year that a student is admitted.

GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola cumulative.

**Courses used in the major cannot also be used to satisfy requirements for a minor: Non-major courses WILL be applied to minors as appropriate.**

**Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2017-18**

**NAME:**

**B.S. CHEMISTRY - CHEM (ACS Certified) (CIP 40.0501)**

**DATE:**

English Composition Placement is: ACT ENGL score 21 or above SAT Verbal score 501 or above Register for ENGL-T122 _____ ACT ENGL score 20 or below SAT Verbal score 500 or below Register for ENGL-A100 _____	ALEKS MATH COURSE PLACEMENT 76-100, MathA257, Calculus I _____ 46-75, MathA118, Pre-Calculus _____ 0-45, MathA092, Fundamentals of Algebra _____ <i>(not counted in final degree credits)</i>	<b>MAJOR.....44 Crs</b> General Chem I & Lab A105 & A107 _____ 3+1 General Chem II & Lab A106 & A108 _____ 3+1 Organic Chem I A300 _____ 3 Organic Chem I - Lab A310 _____ 1 Organic Chem II + Synth. & Characterization A301 & A314 _____ 3+2 Inorganic Chem I A350 _____ 3 Physical Chem I A306 _____ 3 Physical Chem II A307 _____ 3 Physical Chemistry Lab I A308 _____ 1 Physical Chemistry Lab II A309 _____ 1 Integrated Chem Lab I A320 _____ 3 Biochemistry I A400 _____ 3 Instrumental Analysis A410 _____ 4 Capstone Presentation A493 _____ 1	<b>ADJUNCT.....15 Crs</b> Sci II: PhysA102/A104 (Electromag & Relativity/Lab) _____ 4+1 Calculus II Math-A258 _____ 4 Math Elect* _____ 3 Sci/Math Elect** _____ 3  *Choose from Math-A200 or A310 **Choose from Math, Phys, Biol, or Geol.	<h1 style="color: red; margin: 0;">DRAFT</h1>
<b>LOYOLA CORE - 42 Credits</b>		<b>GENERAL ELECTIVES.....16 Crs</b>		
<b>FOUNDATION COURSES</b> Crs/Grade				<b>CHEMISTRY DEPARTMENTAL HONORS Students must:</b> 1) Earn 2.5 Loyola Cum GPA & 3.0 Major GPA, 2) engage in research approved by the dept, & 3) complete 4 credits of CHEM-A498 or the equivalent.  <b>ETS EXAM</b> All majors must take the ETS CHEM field exam, CHEM-A491, (Pass/Fail) & complete an exit survey in last semester prior to graduation.  <b>CHEM-A491 0</b>  Loyola Core.....42 crs Language.....3 crs Major.....44 crs Adjunct.....15 crs General Elective.....16 crs Total.....120 crs
First-Year Seminar T121 _____ 3				
Engl T122: Critical Reading and Writing _____ 3				
Math A257: Calculus I _____ 4				
Sci I: Phys-A101/A103 (Intro Mechanics/Lab) _____ 4/1				
<b>15</b>				
<b>KNOWLEDGE-VALUE COURSES</b>				
Creative Arts and Cultures _____ 3				
Hist I: T122/Emerging World or T124/Modern* _____ 3				
*Choice determines Hist II course below.				
Hist II: _____ 3				
*If T122 taken above, take HIST-Q###; if T124 above, take HIST-P###				
Phil I: Reasoning _____ 3				
Phil II: Knowledge & Morality _____ 3				
Rels I: Christian Theology _____ 3				
Rels II: World Religions _____ 3				
Sci II: (Fulfilled in Adjuncts) _____ 0				
Social Science _____ 3				
Writing About Literature _____ 3				
<b>27</b>				
<b>LANGUAGE OR COMPUTER PROGRAMMING.....3 Crs</b>		5 Crs. Chem Electives, A400-499 Crs Grade		
A) Choice of either spoken or classical language at the A101 level. Language above A101 not required for Chemistry Majors. If place at A100 level, take A100 & A101. A100 credits will count in General Elective.				
Placement _____ /LANG A101 _____ 3				
B) Intro to Programming I & II: COSC A211 is the prerequisite for COSC A212. Credits for COSC A211 will count in General Elective.				
COSC A211 (check-off <input type="checkbox"/> ) & COSC A212 _____ 3		Restricted to a maximum of 3 credits of CHEM-A486 and/or A498		
				GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola cumulative.
				Courses used in the major cannot also be used to satisfy requirements for a minor: Non-major courses WILL be applied to minors as appropriate.

**Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2017-18**

**NAME:** \_\_\_\_\_ **B.S. CHEMISTRY (Liberal Arts) - CHET (Teacher Education) (CIP 40.0501)** **DATE:** \_\_\_\_\_

English Composition Placement is: ACT ENGL score 21 or above SAT Verbal score 501 or above Register for ENGL-T122 _____ ACT ENGL score 20 or below SAT Verbal score 500 or below Register for ENGL-A100 _____	ALEKS MATH COURSE PLACEMENT 76-100, MathA257, Calculus I _____ 46-75, MathA118, Pre-Calculus _____ 0-45, MathA092, Fundamentals of Algebra _____ <i>(not counted in final degree credits)</i>	<b>MAJOR.....30 Crs</b> General Chem I - Lec A105 _____ 3 General Chem I - Lab A107 _____ 1 General Chem II - Lec A106 _____ 3 General Chem II - Lab A108 _____ 1 Organic Chem I - Lec A300 _____ 3 Organic Chem I - Lab A310 _____ 1 Organic Chem II - Lec A301 _____ 3 Synthesis & Characterization A314 _____ 2 Inorganic Chem I - Lec A350 _____ 3 Oral Presentation A493 _____ 1 9 Crs. Chem Electives, A300-400 Crs Grade	<b>TEACHER EDUCATION.....30 Crs</b> Multicultural Education Teac-A100 (See Loyola Core) _____ 0 Educational Psychology Psys-A250 _____ 3 Adolescent Psychology Psys-A255 _____ 3 Reading in the Content Area Teac-A310 _____ 3 The Learner with Special Needs Teac-A210 _____ 3 Classroom Management/Organization Teac-A343 _____ 3 Secondary Methods I (General Pedagogy) Teac-A300 _____ 3 Secondary Methods II (Pedagogy to Specific Field) Teac-A304 _____ 3 Student Teaching Teac-A410 _____ 9	<b>ADJUNCT.....9 Crs</b> Sci II: PhysA102/A104 (Electromag & Relativity/Lab _____ 4+1 Calculus II Math-A258 _____ 4 <b>CHEMISTRY DEPARTMENTAL HONORS</b> <b>Students must:</b> 1) Earn 2.5 Loyola Cum GPA and 3.0 Major GPA, 2) engage in research approved by the dept, & 3) complete 4 credits of CHEM-A498 or the equivalent. <b>ETS EXAM</b> All majors must take the ETS CHEM field exam, CHEM-A491, (Pass/Fail) & complete an exit survey in last semester prior to graduation. <b>CHEM-A491</b> _____ 0 Loyola Core.....42 crs Language.....3 crs Major.....30 crs Teacher Education.....30 crs General Elective.....6 crs Adjunct.....9 crs Total.....120 crs <b>GPA: Must achieve 2.0 in Major, Minor (if declared), &amp; Loyola cumulative.</b> Loyola Core requirements are governed by the catalog year that a student is admitted. See Bulletin for add'l details. <b>Courses used in the major cannot also be used to satisfy requirements for a minor: Non-major courses WILL be applied to minors as appropriate.</b>
<b>LOYOLA CORE - 42 Credits</b>		<b>DRAFT</b>		
<b>FOUNDATION COURSES</b>	Crs/Grade			
First-Year Seminar T121 _____	3			
Engl T122: Critical Reading and Writing _____	3			
Math A257: Calculus I _____	4			
Sci I: Phys-A101/A103 (Intro Mechanics/Lab) _____	4/1			
	<b>15</b>			
<b>KNOWLEDGE-VALUE COURSES</b>				
Creative Arts and Cultures _____	3			
Hist I: T122/Emerging World or T124/Modern* _____	3			
<i>*Choice determines Hist II course below</i>				
Hist II: _____	3			
<i>*If T122 taken above, take HIST-Q###; if T124 above, take HIST-P###</i>				
Phil I: Reasoning _____	3			
Phil II: Knowledge & Morality _____	3			
Rels I: Christian Theology _____	3			
Rels II: World Religions _____	3			
Sci II: (Fulfilled in Adjuncts) _____	0			
Social Science TEACA100 _____	3			
Writing About Literature _____	3			
	<b>27</b>			
<b>LANGUAGE OR COMPUTER PROGRAMMING.....3 Crs</b>				
Spoken modern foreign language at placement level of A100 or A101 OR Classical Greek/Latin A100 or A101 (language above the A101 level not required) OR Intro to Programming I or II (COSCA211 or COSCA212). Language Placement _____				
	3			
Max 3 crs A486 and/or A498 allowed.				

**Degree Program Course List (DPCL) of major requirements for students entering Loyola or transferring into the major in 2017-18**

**NAME:** \_\_\_\_\_ **B.S. CHEMISTRY, FORENSIC SCIENCE - CHFS (CIP 40.0510)** **DATE:** \_\_\_\_\_

English Composition Placement is: ACT ENGL score 21 or above SAT Verbal score 501 or above Register for ENGL-T122 _____ ACT ENGL score 20 or below SAT Verbal score 500 or below Register for ENGL-A100 _____	ALEKS MATH COURSE PLACEMENT 76-100, MathA257, Calculus I _____ 46-75, MathA118, Pre-Calculus _____ 0-45, MathA092, Fundamentals of Algebra _____ <i>(not counted in final degree credits)</i>	<b>MAJOR.....36 Crs</b> General Chem I A105 _____ 3 General Chem I - Lab A107 _____ 1 General Chem II A106 _____ 3 General Chem II - Lab A108 _____ 1 Organic Chem I A300 _____ 3 Organic Chem I - Lab A310 _____ 1 Organic Chem II A301 _____ 3 Synthesis & Characterization A314 _____ 2 Integrated Chem Lab I A320 _____ 3 Intro to Forensic Methods A315 _____ 3 Biochemistry I A400 _____ 3 Techniques in Biochemistry A402 _____ 1 Instrumental Analysis A410 _____ 4 Chemistry Seminar For Majors A486 _____ 1 Internship / Research A497 or A498 _____ 3 Capstone Presentation A493 _____ 1	<b>ADJUNCT.....19 Crs</b> Sci II: Phys-A102/A104 (Elec & Rel/Lab) _____ 4+1 Calculus II, MathA258 _____ 4 Math-A260 or Crim-A260 _____ 3 Cells & Heredity: Biol-A106/A107 _____ 3+1 Criminalistic II: Crime Lab Frsc-A201 _____ 3	<b>CONCENTRATION OPTIONS, 13-14 Crs</b> <b>I: Instrumental Analysis (INST)</b> Physical Chemistry I A306 _____ 3 Physical Chemistry II A307 _____ 3 Physical Chem Labs I & II A308 & A309 _____ 1+1 Choose two (2) from the following: Math: A200, A310, A320, A375 _____ 3 _____ 3 <b>14</b> <b>II: Biochemistry &amp; Genetics (GENE)</b> Biol of Organisms Biol-A108 - Lec _____ 3 Biol-A109 - Lab _____ 1 Molecular Genetics Biol-A326 - Lec _____ 3 Biol-A327 - Lab _____ 1 Genetic Analysis Biol-A328 - Lec _____ 3 Biochemistry II Chem-A401 - Lec _____ 3 <b>14</b> <b>III: Human Mind &amp; Behavior (MIND)</b> Intro to Psychology Psyc-A100 _____ 3 Developmental Psychology Psyc-A230 _____ 3 Take two (2) from the following for 7 crs total (must include a PSYC lec/lab combo) <b>PSYC:</b> A315/316, A322/A323, A415 <b>SOCI:</b> A215, or <b>FRSC:</b> A301, A370 _____ 3/1 _____ 3 <b>13</b>
<b>LOYOLA CORE - 42 Credits</b>				
<b>FOUNDATION COURSES</b> _____ Crs/Grade				
First-Year Seminar T121 _____ 3				
Engl T122: Critical Reading and Writing _____ 3				
Math A257: Calculus I _____ 4				
Sci I: Phys-A101/A103 (Intro Mechanics/Lab) _____ 4/1				
				<b>15</b>
<b>KNOWLEDGE-VALUE COURSES</b>				
Creative Arts and Cultures _____ 3				
Hist I: T122/Emerging World or T124/Modern* _____ 3				
<i>*Choice determines Hist II course below</i>				
Hist II: _____ 3				
<i>*If T122 taken above, take HIST-Q###; if T124 above, take HIST-P###</i>				
Phil I: Reasoning _____ 3				
Phil II: Knowledge & Morality _____ 3				
Rels I: Christian Theology _____ 3				
Rels II: World Religions _____ 3				
Sci II: (Fulfilled in Adjuncts) _____ 0				
Social Science _____ 3				
Writing About Literature _____ 3				
				<b>27</b>
<b>LANGUAGE OR COMPUTER PROGRAMMING.....3 Crs</b>				
<b>A)</b> Choice of either spoken or classical language at the A101 level. Language above A101 not required for Chemistry Majors. If place at A100 level, take A100 & A101. A100 credits will count in General Elective.				
<b>Placement</b> _____ /LANG A101 _____ 3				
<b>B)</b> Intro to Programming I & II: COSC A211 is the prerequisite for COSC A212. Credits for COSC A211 will count in General Elective.				
<b>COSC A211 (check-off <input type="checkbox"/> ) &amp; COSC A212</b> _____ 3				
		<b>GPA: Must achieve 2.0 in Major, Minor if declared), &amp; Loyola cumulative.</b>		
		<b>Loyola Core reqs are governed by the catalog year that a student is admitted.</b>		
			<b>GENERAL ELECTIVES.....6-7 Crs</b>	
			<b>DRAFT</b>	
			<b>CHEMISTRY DEPARTMENTAL HONORS</b>	
			<b>Students must:</b> 1) Earn 2.5 Loyola Cum GPA and 3.0 Major GPA, 2) engage in research approved by dept, & 3) complete 4 crs CHEM-A498 or the equivalent.	
			<b>ETS EXAM:</b> All majors must take the ETS CHEM field exam, CHEM-A491, (Pass/Fail) & complete an exit survey in last semester prior to graduation.	
			<b>CHEM-A491</b> _____ <b>0</b>	
			Courses used in major cannot also be used for reqs in a minor: Non-major courses WILL be applied to minors as appropriate.	
			Loyola Core.....42 crs	
			Language.....3 crs	
			Major.....36 crs	
			Adjunct.....19 crs	
			General Elective.....6-7 crs	
			Concentration I, II, or III.....13-14 crs	
			Total.....120 crs	

**MINOR TRACKING SHEET:**

Courses used in the Major cannot be used to satisfy courses in the Minor. Plan to take the below classes as part of (or in addition to) your General Elective allowance, because GE courses can be used in both areas.

Forensic Chemistry (CHFS).....21 crs

## General Chem I

A105 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A107 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## General Chem II

A106 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A108 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## Organic I

A300 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A310 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## Organic II

A301 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

ChemA315 \_\_\_\_\_ 3 \_\_\_\_\_

ChemA497 \_\_\_\_\_ 3 \_\_\_\_\_

Cannot use Chem-A486 for credit

2.0 GPA required

Advisor: Department Chair

2017-2018

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**MINOR TRACKING SHEET:**

Courses used in the Major cannot be used to satisfy courses in the Minor. Plan to take the below classes as part of (or in addition to) your General Elective allowance, because GE courses can be used in both areas.

Chemistry (CHMM).....21 crs

## General Chem I

A105 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A107 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## General Chem II

A106 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A108 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## Organic I

A300 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

A310 (Lab) \_\_\_\_\_ 1 \_\_\_\_\_

## Organic II

A301 (Lec) \_\_\_\_\_ 3 \_\_\_\_\_

## Chem Elective

A300-A400 \_\_\_\_\_ 3 \_\_\_\_\_

## Chem Elective

A300-A400 \_\_\_\_\_ 3 \_\_\_\_\_

Cannot use Chem-A486 for credit

2.0 GPA required

Advisor: Department Chair 2017-2018

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