

9/2009: This model is in effect for all students entering the program after 9/1/2008

Name: \_\_\_\_\_

### PROGRAM GUIDE FOR B.S. DEGREE IN Chemistry

Trans.	Rowan	Sem. Hrs.
	<b>GENERAL EDUCATION Requirements (See Gen Ed Guide)</b>	
	<b>COMMUNICATIONS (min. 6 s.h.)</b>	
	COMP 01.111 College Composition I	3
	COMP 01.112 College Composition II	3
	<b>SCIENCE AND MATHEMATICS (min. 11 s.h.)</b>	
	Introductory Mechanics [PHYS 02.200]	4
	Calculus I [MATH 01.130]	4
	Intro to Scientific Programming [CS 01.1104]	3
	<b>HISTORY, HUMANITIES &amp; LANGUAGES (min. 6 s.h.)</b>	
	Philosophy of Science – WI [PHIL 09.368]*	3
	Choice from Approved General Education Courses	3
	<b>SOCIAL AND BEHAVIORAL SCIENCES (min. 6 s.h.)</b>	
	Choice from Approved General Education Courses	3
	Choice from Approved General Education Courses	3
	<b>ROWAN EXPERIENCE (RE) Requirements (6 s.h)-see RE Guide</b>	
	One Writing Intensive Course* [PHL 09.368]	3
	One Multicultural/Global* [Choice from SBS Bank]	3
	Rowan Seminar (RS)*	3
	Public Speaking [CMS 04.205]	3
	Literature (Broad-based LIT choice from Approved RE courses)*	3
	Artistic and Creative Experience (choice from Approved RE courses)	3
	<b>NON-PROGRAM ELECTIVES (min. 8 s.h.)</b>	
	Intro to Electricity and magnetism [PHYS 02.201]	4
	Calculus II [MATH 01.131]	4
	<b>REQUIRED MAJOR COURSES (50 s.h.)</b>	
	Calculus III [MATH01.230]	4
	Chemistry I [CHEM 06.100] or Adv. College Chemistry-I [CHEM 06.105]	4
	Chemistry II [CHEM 06.101] or Adv.CollegeChemistry-II[CHEM 06.106]	4
	Organic Chemistry I [CHEM 07.200]	4
	Organic Chemistry II [CHEM 07.201]	4
	Quantitative Analysis [CHEM 09.250]	4
	Physical Chemistry I [CHEM 08.400]	3
	Physical Chemistry Lab I [CHEM 08.402]	2
	Physical Chemistry II [CHEM 08.401]	3
	Physical Chemistry Lab II [CHEM 08.403]	2
	Instrumental Methods [CHEM 09.410]	4
	Advanced Inorganic Chemistry [CHEM 06.300]	4
	Biochemistry with Laboratory [CHEM 07.348]	4
	Seminar [CHEM 05.450]	1
	Research I or Co-op [CHEM 05.440 or CHEM 05.435]	3
	Free Electives (15) and Restricted Electives taken with advise (12)	27
	<b>TOTAL</b>	<b>120</b>

All students must take 42 credits of General Education and Rowan Experience courses.

\*Students must also take the following:

- One Rowan Seminar (excluding transfers)
- One Multicultural/Global Studies (M/G)
- One Writing Intensive (WI)
- One Broad-based Literature (LIT)
- One Artistic and Creative Experience (ACE)
- One Public Speaking (PS)
- 

**NOTE: M/G, LIT, ACE, WI and RS courses that are taken within the major program of study DO NOT COUNT towards this minimum total of 42 credits.**

Courses may be transferred from Community Colleges up to a maximum of 67 hours; all such transfers are counted as lower-level courses.

Students must have a 2.0 overall GPA as well as a 2.0 GPA in major courses taken at Rowan. Grades of C or better in all of the following courses: MATH 01.130, MATH 01.131, MATH 01.230, CHEM 06.100, CHEM 06.101, CHEM 07.200, CHEM 07.201, PHYS 02.200, PHYS 02.201.

### **Chemistry Major Requirements**

#### **Credits:**

30 Credits at Rowan University  
Common Core: 50 SH  
Restricted Electives: 12 SH

#### **Overall Credits:**

**120 total credits**

Maximum Community College transfer credits = 67 credits  
Community College credits transfer in as lower-level (100, 200)