



## CHEMISTRY: MATH CONCENTRATION

Delaware Technical & Community College

[www.dtcc.edu/connecteddegree](http://www.dtcc.edu/connecteddegree)



*An opportunity to gain an associate degree from Delaware Tech and a bachelor's degree from Delaware State University.*

### **YOUR PATH TO A BACHELOR'S DEGREE**

Delaware Tech has established agreements with four-year colleges and universities that connect Delaware Tech associate degree programs with bachelor's degree programs to create smooth transfer opportunities for you. These Connected Degree programs enable you to complete your associate degree and then transfer to a four-year degree program as a junior.

### **THE CONNECTED DEGREE 2 + 2 CURRICULUM**

Delaware Tech's associate degree program in Chemistry: Math Concentration teaches students the processes and procedures of laboratory work, modern instrumentation and chemical principles in preparation for employment in research and in a laboratory setting. This option also prepares students for further study in Chemistry at the baccalaureate level.

Delaware State University's bachelor's degree program in Chemistry provides a strong foundation for students wishing to concentrate in chemistry and/or chemical engineering. The curriculum meets the standards adopted by the American Chemical Society for undergraduate professional education in chemistry. Graduates are prepared for a variety of positions in areas such as research, sales, technology, and engineering. Additionally, program graduates may choose to continue their education through graduate study.

### **VALUE FOR YOU**

By completing your associate degree at Delaware Tech, you'll receive excellent instruction in small classes at a campus close to home. Delaware Tech's affordable tuition can reduce the overall cost of your college education, making the completion of your bachelor's degree more manageable.

### **MAKING THE CONNECTION**

Refer to the Connected Degree curriculum (on the reverse side of this page) for the sequence of courses needed to complete this program. Call Delaware Tech and let us help you follow the path to your bachelor's degree.



# CONNECTED DEGREE CURRICULUM

## Suggested Course Sequence

ASSOCIATE DEGREE Chemistry: Chemistry/Math Concentration				BACHELOR'S DEGREE Chemistry					
DELAWARE TECHNICAL & COMMUNITY COLLEGE				CR	DELAWARE STATE UNIVERSITY				CR
<b>FIRST SEMESTER (FALL)</b>					<b>FIFTH SEMESTER (SUMMER)</b>				
BIO	150	Biology I		4	25	252	Calculus II*		4
CHM	150	Chemical Principles I		5					
ENG	121	Composition		3	<b>SIXTH SEMESTER (FALL)</b>				
CIS	107	Computer Applications		3	XX	XXX	Chemistry, Math or Physics Elective		3
MAT	185	Precalculus		4	01	200	Speech		3
				<b>19</b>	24	303	Physical Chemistry I		4
					16	100	Fitness and Wellness		2
									<b>12</b>
<b>SECOND SEMESTER (SPRING)</b>					<b>SEVENTH SEMESTER (SPRING)</b>				
MAT	281	Calculus I		4	XX	101	Foreign Language I		3
CHM	151	Chemical Principles II		5	24	304	Physical Chemistry II		4
PHY	171	Physics I		4	24	306	Instrumental Methods of Analysis		4
PSY	121	General Psychology		3	24	308	Inorganic Chemistry		4
				<b>16</b>					<b>15</b>
<b>THIRD SEMESTER (FALL)</b>					<b>EIGHTH SEMESTER (FALL)</b>				
CHM	240	Organic Chemistry I		4	01	XXX	African American Literature I		3
CHM	250	Analytical Chemistry I		5	XX	102	Foreign Language II		3
PHY	172	Physics II		4	24	403	Biochemistry		4
SOC	111	Sociology I		3	24	407	Seminar in Chemistry		1
					24	405	Independent Study/Research		3
				<b>16</b>					<b>14</b>
<b>FOURTH SEMESTER (SPRING)</b>					<b>NINTH SEMESTER (SPRING)</b>				
CHM	241	Organic Chemistry II		4	01	XXX	African American Literature II		3
CHM	251	Analytical Chemistry II		4	34	395	Global Societies		3
PHY	271	Electricity & Magnetism		4	34	10X	History		3
					34	20X			
ENG	122	Tech Writing & Communication		3	XX	XXX	Elective		3
					24	XXX	Elective (Advanced Chemistry)		3
				<b>15</b>					<b>15</b>
<b>TOTAL CREDITS</b>				<b>66</b>	<b>TOTAL CREDITS</b>				<b>60</b>
*DTCC students are strongly recommended to take MAT 282, which transfers for DSU's 25-252, Calculus II. as a post associate degree course					See your advisor for proper selection of courses to meet DSU's requirement of one African-American Experience and two multicultural courses.				
<ul style="list-style-type: none"> <li>*Students must complete a minimum of 121 credits for the bachelor's degree in Chemistry at DSU. Credits remaining for bachelor's degree completion are based on the physics course sequence taken at DTCC.</li> <li>Course offerings by semester may vary. See your advisor.</li> <li>RDG 120, Critical Reading and Thinking, is a required DTCC course unless the student is exempt.</li> </ul>									
For more information contact:									
<b>Delaware Tech</b> Newark, Delaware: (302) 453-3784					<b>Delaware State University</b> Dover, Delaware: (302) 857-7992				
This articulation agreement is subject to change based on Delaware Tech and senior institution curriculum changes. 01/2010									