

**CHEMISTRY SECONDARY EDUCATION (9-12 LICENSURE)**  
**SCHOOL OF SCIENCES**  
**Beginning Fall 2017**

YEAR	FALL SEMESTER	SPRING SEMESTER	VERITAS REQUIREMENTS
<b>FRESHMAN</b>	DGN 1101 Dignity of Self 4 cr. CHM 1110 General Chemistry I 4 cr. ENG 1110 First Year Composition 4 cr. *EDU 1540 Introduction to Teaching 2 cr. *EDU 1505 Introductory Field Experience 1 cr. (Must take EDU 1540 and 1505 together)	DGN 1102 Dignity for All 4 cr. CHM 1120 General Chemistry II 4 cr. *CTA 1101 Interpersonal Communication 2 cr. BIO 1104 Life Science 4 cr. (or in a subsequent spring term if need MTH 1111-See physics sophomore fall) ** PSC 1202 Cosmic Systems 4 cr. (offered irregularly) ** <b>Basic Skills Exams: Math, Reading, and Writing</b>	<b>Foundations</b> 18 credits (plus language requirement) Foundations courses need not all be completed in a student's first year. <ol style="list-style-type: none"> <li>1) DGN 1101 or HON 1111 (4 cr.)</li> <li>2) DGN 1102 or HON 1112 (4 cr.)</li> <li>3) CTA 1101 Interpersonal Communication (2 cr.)</li> <li>4) ENG 1110 First Year Composition (4 cr.)</li> <li>5) World Language+</li> <li>6) Math (4 cr.) (Met By Calculus)</li> </ol>
<b>SOPHOMORE</b>	CHM 2200 Organic Chemistry I 4 cr. PSC 2001 Physics I 4 cr. (Note: You must earn a C in MTH 1111 or have a math ACT of 24 or higher to take this course) EDU 2102 Secondary Health & Drug Education 2 cr. *EDU 2210 Educational Psychology 3cr *EDU 2215 Ed. Psychology Field Experience 1cr (Must take EDU 2210 and 2215 together) *MTH 2221 Calculus I 4 cr. (before fall of junior year) ***** <b>Basic Skills Exams: Math, Reading, Writing</b>	CHM 2210 Organic Chemistry II 4 cr. PSC 2002 Physics II 4 cr. EDU 2300 Human Relations 2 cr. EDU 2800 Teaching Process I 3 cr. EDU 2805 Field Experience: Middle School 1 cr. (Must take EDU 2800 with 2805) Veritas Course 4 cr.	+The language requirement can be met by having completed three years of one language in high school, completing the 1112 in a language sequence, demonstrating equivalent proficiency at the same course levels through a placement exam, or being bilingual.  <b>Conceptions &amp; Integrations</b> 32 credits Students must complete 4 credits in each of the 7 disciplinary pathways plus 4 more credits in any pathway(s). 16 credits must be from Conceptions courses; 8 credits must be from Integrations courses. <ol style="list-style-type: none"> <li>1) Social Sciences</li> <li>2) History</li> <li>3) Literature</li> <li>4) Fine Arts</li> <li>5) Religious Studies (Must Be Conceptions Level)</li> <li>6) Philosophy</li> <li>7) Science (Met By General Chemistry – Conceptions Level)</li> <li>8) Open</li> </ol>
<b>JUNIOR</b>	EDU 3000 Capstone Portfolio, 0 cr. CHM 3000 Analytical Chemistry 4 cr. (instructor permission required) EDU 3800 Teaching Process II 3 cr. EDU 3805 Teaching Process II Field Exp. 1 cr. (With EDU 3800) NSC 3333 Science Methods 4 cr. **** NSC 3335 Science Methods Field Experience 1 cr. (Must take NSC 3333 with 3335) **** Veritas Course 4 cr.	PSC 4150 Science & Culture 4 cr. (offered alternate even spring semesters) EDU 3620 Classroom Assessment 2 cr. *** CHM 4999 Undergraduate Research Indep. Study 0-4 cr. *** Veritas Courses *EDU 3250 Introduction to Exceptionalities and Special Education 2 cr.  <b>Apply to student teaching spring of junior year</b>	To graduate from The College of St. Scholastica, students must complete a total of <b>128</b> credits of which <b>42</b> need to be <b>upper division credits</b> and the last <b>32</b> credits must be earned through St. Scholastica. Upper division credits are those numbered <b>3000 or greater</b> and <b>cannot</b> include graduate level credits.  *Course may be taken fall or spring semester. ** Required to add 5-8 General Science Licensure ***May be taken fall or spring of junior or senior year ****Alternate years either junior or senior year *****Student teaching may require one semester in 5 <sup>th</sup> year.
<b>SENIOR</b>	CHM 3460 Physical Chemistry I 4 cr. *CHM 3240 Biochemistry I 4 cr. CHM 4020 Inorganic Chemistry 4 cr. (offered alternate even years)***** Veritas Course 4 cr.  <hr/> <b>Year Five</b>  EDU 4700 Gr. 5-12 Student Teaching 14 cr. ***** EDU 4710 Gr. 5-12 Student Teaching Seminar 2 cr. *****	EDU 4700 Middle Level/HS Student Teaching 14 cr. ***** EDU 4710 Gr. 5-12 Student Teaching Seminar 2 cr. *****  <b>MTLE Exams-Pedagogy and Content Area Exams</b>	04/2017

This schema assumes students have met the world language requirement by taking three years of a world language in high school. The number of semesters in which 18 credits need to be carried can be reduced by credit transfer or taking Veritas courses in summer. Students work closely with their advisor to map out their plan.

**Additional Notes:**

\*\*\*\*\*MTH 2221 Calculus I must be completed before taking CHM 3460, 3470 Physical CHM I-II.

\*\*\*\*\*CHM 4020 is offered in alternate years; the year 4020 is not taught, CHM 3460-3470 is offered. Students are responsible to track these course offerings.

The College cannot and will not offer these as independent studies. Physical or Inorganic Chemistry may be taken by cross-registration at UMD.

This degree is an exemption to the four year pledge – see <http://www.css.edu/undergraduate/undergraduate-traditional/academics/four-year-pledge.html> for details.