

CHEMISTRY

NAME	I.D.#	Expected Grad Date	B.S. Degree
General Education Requirements			
<u>3</u>	THEO 110 Intro to Christianity		
<u>3</u>	BLIT 210 Christian Scriptures		
<u>3</u>	CMIN 310 Christian Living		
<u>3</u>	Approved Stewardship Course* _____		
<u>3</u>	ENGL 109 College Writing I		
<u>3</u>	ENGL 207 College Writing II (CSE)		
<u>3</u>	COMM 105 Fundamentals of Communication		
<u>3</u>	HIST 200 Western Civilization		
<u>3</u>	Approved Social Science Course* _____		
<u>6</u>	Approved Humanities Courses* Select 3 hours from <u>two</u> different areas: Fine Arts, Literature, Philosophy, Modern Languages _____		
<u>3-8</u>	Elementary Foreign Language I and II OR Approved International Culture course* _____		

*See olivet.edu/registrar for approved list of courses

Major: 47-55 hours – 2.000 required in major

<u>4</u>	BIOL 125 Biology I
<u>4</u>	CHEM 103 General Chemistry I
<u>4</u>	CHEM 104 General Chemistry II
<u>4</u>	CHEM 301 Quantitative Analysis
<u>5</u>	CHEM 311 Organic Chemistry I
<u>5</u>	CHEM 312 Organic Chemistry II
<u>4</u>	CHEM 482 Physical Chemistry Survey
<u>1-2</u>	CHEM 495 Chemistry Seminar (taken each year)
<u>1-4</u>	CHEM 498 Research in Chemistry

Plus completion of one of the concentrations at the right:

A. GENERAL CONCENTRATION

<u>3</u>	CHEM 320 Inorganic Chemistry
<u>4</u>	CHEM 335 Biochemistry
<u>4</u>	CHEM 410 Instrumental Analysis
<u>4</u>	CHEM 493 Advanced Physical Chemistry

Required Supporting Courses:

<u>4</u>	MATH 147 Calculus I
<u>4</u>	MATH 148 Calculus II
<u>4</u>	MATH 261 Calculus III
<u>3-4</u>	MATH 241 Statistics OR MATH 351 Linear Algebra OR MATH 357 Differential Equations
<u>4</u>	PHYS 201 General Physics I
<u>4</u>	PHYS 202 General Physics II

B. BIOCHEMISTRY CONCENTRATION

<u>4</u>	BIOL 319 Genetics
<u>4</u>	BIOL 484 Molecular and Cell Biology
<u>4</u>	CHEM 335 Biochemistry
<u>4</u>	CHEM 436 Advanced Biochemistry

And one of the following:

<u>4</u>	BIOL 356 Microbiology OR CHEM 410 Instrumental Analysis OR CHEM 493 Advanced Physical Chemistry
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Required Supporting courses:

<u>4</u>	MATH 147 Calculus I
<u>4</u>	MATH 241 Statistics
<u>8</u>	One Year of Physics

Recommended Supporting Course:

<u>4</u>	MATH 148 Calculus II
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C. FORENSICS CONCENTRATION

<u>4</u>	BIOL 380 Toxicology
<u>4</u>	CHEM 335 Biochemistry
<u>3</u>	CHEM 340 Drug Chemistry
<u>4</u>	CHEM 410 Instrumental Analysis

Required Supporting courses:

<u>3</u>	CJUS 243 Intro to Criminal Justice
<u>3</u>	CJUS 343 Criminal Law
<u>3</u>	CJUS 360 Criminal Procedure
<u>3</u>	CJUS 410 Crime Scene Investigation
<u>4</u>	MATH 147 Calculus I
<u>4</u>	MATH 241 Statistics
<u>4</u>	PHYS 201 General Physics I
<u>4</u>	PHYS 202 General Physics II

Recommended Supporting Course:

<u>4</u>	MATH 148 Calculus II
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See reverse for additional requirements

D. EARTH & ENVIRONMENTAL CHEMISTRY CONC.

- 3 CHEM 320 Inorganic Chemistry
- 4 CHEM 410 Instrumental Analysis
- 4 ESS 105 Dynamic Earth
- 4 ESS 302 Mineral Science
- 4 ESS 385 Earth & Environmental Chemistry

Choose 2 of the following:

- 3 ESS 109 Earth's Oceans & Atmosphere
- 3 ESS 332 Water Resource Issues
- 3 Au Sable Institute: CHEM 332 (Env. Chem)

Required Supporting Courses:

- 4 MATH 147 Calculus I
- 4 MATH 241 Statistics
- 8 One Year of Physics

Recommended Supporting Courses:

- 4 BIOL 380 Toxicology
- 0.5 ENVI 395 Env. Seminar: Env. Law