

B.S. Degree, Chemistry Major: Premedical Sciences Concentration (for most degree-requiring programs)

The Chemistry:Premedical Science concentration is designed for students in pre-health professions programs, such as pre-medical and pre-dental, that require completion of a baccalaureate degree. This curriculum includes courses required or recommended by the professional schools but also maintains enough breadth in coursework to be considered a chemistry degree. Such professional programs require applicants to have completed a bachelors degree, but they do not specify a particular major. Although a pre-professional student may choose any major, most students choose biology or chemistry, as these majors build in most of the professional school requirements and usually provide the best preparation for entrance exams such as the medical college admission test (MCAT) or the dental admission test (DAT).

	Courses	Credit	Notes
General Education Requirements			
English Composition	ENG 101 and ENG 102 or 103	6	Two semesters of English composition
Communication Studies	COM 101 or 202	3	Take either Public Speaking or Interpersonal Communications.
Literature and Fine Arts	2 literature courses plus one from: ART 101, 212, 401, 402, 405; MUS 114, 115, 116, 117; THE 225, 320	9	Most students choose ENG 203/204 for literature. For fine arts, choose an art, music, or theater course from those listed. (See <i>Bulletin</i> for course descriptions)
History	Choose any two from: HIS 101, 102, 201, or 202.	6	History of civilization (101/102) or United States history (201/202)
Mathematics	(see next section)		Satisfied by mathematics taken for Special Degree Requirements
Perspectives on Society	PSY 101 plus two from: ANT 101, ECO 210 or 211, GEO 201 or 303, PHI 201, PSC 103 or 201, SOC 101	9	General psychology plus two of the listed courses from the fields of anthropology, economics, geography, philosophy, or sociology. (See <i>Bulletin</i> for course descriptions)
Personal Development	(see next section)		Satisfied by foreign language, which is required under special degree requirements.
Writing Proficiency	ENG 300, ENG 301, passing CAAP score, or passing GRE writing score	0-3	Take the Writing Proficiency Exam (ENG 300) after taking both semesters of English composition and one semester of literature. If you don't pass, you must take ENG 301. This requirement may also be satisfied by a score of 3 or higher on the CAAP exam, or by a score of 3.5 or higher on the writing portion of the GRE.
33-36			
Special Degree Requirements			
Foreign language	SPA 101, 102 or FRE 101, 102 or GER 101, 102	6	Two semesters of Spanish, French, or German. May be satisfied with 6 hours at the 200 level if two years of language were taken in high school. One semester of language also satisfies the general education personal development requirement.
Mathematics	MAT 104/105 or MAT 106 plus MAT 251, 300, or PSY 331	6-9	There are two requirements here: (1) college algebra and trigonometry, or precalculus; and (2) one semester of calculus or a statistics course. (NOTE: UMMC dental school REQUIRES statistics.)
Physics	PHY 221, 222 or PHY 231, 232; and PHY 233, 234	8	General physics, which requires calculus (231/232); or physics for life sciences, for students not taking calculus (221,222). Regardless of which physics sequence is chosen, it must be accompanied by physics laboratory (233/234).
20-23			
Major Requirements			
Chemistry Core	CHE 101, 102, 103, 104, 311, 319, 320, 321, 322	21-25	The core comprises general chemistry (2 semesters with lab), quantitative analysis, and organic chemistry (2 semesters with lab).
Advanced Chemistry	CHE 351, 440, 442	12	Physical chemistry for life sciences, biochemistry, and biotechnology
Basic Biology	BIO 100, 101, 300	12	Both semesters of principles of biology and cell biology
Biology Electives	BIO 200-level or above	9-12	Take three additional biology courses. Recommended electives for medical and dental school are microbiology, genetics, mammalian physiology, histology, comparative vertebrate anatomy, parasitology, plant physiology
54-61			

Recommended electivesAdvisor
recommendations

Consult your advisor

Work with your advisor to choose courses related to your interests, your career goals, and preparation for any professional or graduate schools you might be considering. You must take enough electives to bring your total credit to at least 124. See additional requirements below.

Additional Notes:

- A baccalaureate degree from Delta State requires a minimum of 124 credit hours. Of that 124 hours, at least 62 must be taken at a senior college, at least 31 must be taken at DSU, and at least 40 must be 300- or 400-level courses. Courses taken at 2-year schools cannot be counted at the 300- or 400-level. 24 of the last 30 hours must be taken at DSU.
- Enrollment in upper-level BIO courses (BIO 200 and above) requires that you have "Full Admission" status. You have full admission status if you have completed BIO 100, 101, and CHE 101, 102, 103, and 104 with no grades below C. Consult the Bulletin or the Division of Biological and Physical Sciences web site, or see your advisor for more information.
- This program leads to a B.S. degree with a major in Biology and a minor in Chemistry.
- Advanced (junior-, senior-level) science courses must be taken at a senior college.
- UMMC (and most other professional schools) does not accept credit for online courses or dual-enrollment courses to satisfy any of the mathematics or science prerequisites.
- Degree requirements are revised frequently. This list is a summary based on the current DSU Bulletin. Consult the Bulletin for complete details on all requirements for graduation. You should follow the requirements stated in the issue of the Bulletin that was current for the semester you first enrolled at DSU. You may elect to follow a more recent Bulletin issue if you wish.
- **IMPORTANT:** Application to health professional schools is very competitive. Completion of the minimum requirements will not ensure admission. Admission decisions are based on policies established by the professional school's faculty and admission committee. Successful applicants typically have GPAs and other qualifications well in excess of stated minimums. Talk to your advisor for more information on what is realistically needed to have a good chance of getting into your desired professional school.