

University of Southern Mississippi
College of Science and Technology
Pre-Pharmacy Curriculum Rev. 4/21/09

The “pre-pharmacy curriculum” is just *a list of courses that are required for admission to pharmacy school*. **It is NOT an academic major, a minor, or an emphasis area.**

Students must complete the *four-year Bachelor of Science in Pharmaceutical Sciences (B.S.P.S.) degree program at Ole Miss* in order to be accepted into the *Doctor of Pharmacy* program.

Students are admitted to B.S.P.S. program the after completion of required pre-pharmacy courses at Southern Miss (or at other two-year or four-year colleges/universities).

The following list of **Courses** meets only *the minimal requirements for admission* to the **School of Pharmacy at the University of Mississippi**.

Link to Ole Miss SoP: <http://www.pharmacy.olemiss.edu/ap/undergrad/index.html>

Link to Pre-Professional courses: <http://www.pharmacy.olemiss.edu/ap/undergrad/prepharmcourse.html>

Students must consult the specific admission requirements and application deadlines for the school(s) to which they plan to apply, including Ole Miss.

- biological sciences (8 hours); physiology (4 hours); medical microbiology (4 hours)
- chemistry [inorganic chemistry (8 hours), organic chemistry (8 hours), biochemistry (3 hours)]
- physics (8 hours)
- calculus (3 hours)
- English composition (6 hours)
- speech (3 hours)
- microeconomics (3 hours)
- statistics (3 hours)
- bioethics (3 hours)

Beginning in 2010, applicants must also have credit for:

- genetics (4 hours); immunology (3 hours); cell / molecular biology (4 hours)

Link to Ole Miss School of Pharmacy course equivalents for Mississippi universities:

<http://www.pharmacy.olemiss.edu/ap/undergrad/thirdyearcourses08.pdf>

- The USM Bioethics course PHI 452 (Health Care Ethics) is rarely taught, so students must plan to take a bioethics course at another university.

Most students are admitted to the School of Pharmacy after completing the series of required courses and electives, which typically takes up to 3 years; however, these courses are often taken in order to complete a *four year non-pharmacy baccalaureate degree at Southern Miss*.

Progress toward a Baccalaureate Degree

Course work toward a baccalaureate degree at Southern Miss must be planned so the student meets all the requirements for the preprofessional curriculum, a major, a minor if appropriate, the University General Education Curriculum, and the College core. At Southern Miss, a minimum of 124 hours is needed for most baccalaureate degrees, with 45 of these hours from courses at the 300-level or above.

The ***suggested course sequence*** below is merely a guideline. Students must consult the USM Undergraduate Bulletin, the USM Class Schedule Guide for each semester, and their academic advisor.

During the Sophomore year, students should develop a more detailed plan for the Junior and Senior years because many upper level courses are offered in specific semesters (Fall or Spring only) and/or on a rotating two-year cycle.

Link to Ole Miss SoP suggested course sequence:

<http://www.pharmacy.olemiss.edu/ap/undergrad/prepharmcourse.html>

YEAR 1

Fall		Spring	
BSC 110&L OR BSC 111&L	4 h	BSC 111&L OR BSC 110&L	4 h
CHE 106&L ^a	4 h	CHE 107&L	4 h
MAT 101 ^b	3 h	MAT 103 ^b	3 h
ENG 101	3 h	ENG 102	3 h
SCM 111	3 h	ECO 202	3 h

^a, CHE 100 is required when the chemistry background is not adequate. Students may enter CHE 100 directly, if they choose. Students enrolled in CHE 106/L must take a standardized test during the first week or two of class in order to remain in CHE 106/L; if they do not meet the minimum score, these students move to a CHE 100 class.

^b, Calculus is required for most majors in the College of Science and Technology AND for admission to the B.S.P.S. at Ole Miss. Placement in MAT courses depends on the student's ACT subscore. Students may enroll in Calculus directly if the ACT mathematics *subtest score is* ≥ 26 ; otherwise, they must take prerequisite courses, typically College Algebra (MAT 101) and/or Trigonometry (MAT 103). Entering freshmen with an ACT mathematics *subtest score of* ≤ 16 must take Intermediate Algebra (MAT 099) during the first semester.

Students with an ACT mathematics *subtest score of 17-19* are **STRONGLY ENCOURAGED** to take Intermediate Algebra before taking College Algebra.

Beginning in AY 2009-2010, entering freshmen with an ACT mathematics *subtest score of* ≤ 19 must take Intermediate Algebra (MAT 099) during the first semester.

Students may take Trigonometry if the ACT mathematics *subtest score is* ≥ 24 or if they have a grade of C or better in College Algebra.

Students entering Calculus (MAT 167 or MAT 314) directly can use this course to satisfy the math requirement at Ole Miss.

Strategy for Success

- Students should focus on doing well in their studies.
- Students could start getting some **hands-on exposure** to pharmacy.

YEAR 2

Fall		Spring	
CHE 255&L	4 h	CHE 256&L	5 h
PHY 111&L	4 h	PHY 112&L	4 h
MAT 167 or MAT 314	3 h	MAT 320 or PSY 360	3 h
PHI 452	3 h	BSC 380/L	4 h

Strategy for Success

- Students continue to focus on doing well in their studies.
- Students could participate in **hands-on exposure** to pharmacy.

YEAR 3

Fall		Spring	
CHE 420	3 h	BSC 481/L	4 h
BSC 476 ^c	3 h	BSC 370 ^e	4 h
BSC 451 ^d	3 h	BSC 486/L ^f	4 h
Elective courses	5-8 h	Elective courses	4-7 h

^c, Cell/Molecular Biology is recommended for students applying in 2009, but is required for students applying in 2010.

^d, a physiology course is required; Mammalian Physiology is typically taught in Fall

^e, Genetics is recommended for students applying in 2009, but is required for students applying in 2010. Students should complete at least one semester of Organic Chemistry before taking Genetics.

Students may use BSC 475 (Medical Genetics) to fulfill this requirement at Ole Miss but NOT for the Southern Miss degree program.

^f, Immunology is recommended for students applying in 2009, but is required for students applying in 2010.

The **application process may begin** in the Spring semester of this year.

- Applicants must have completed (or be enrolled in) the minimum pre-requisite course requirements at the time of application.
- Applicants must have a minimum GPA of 2.75 on all required pre-pharmacy courses. (Applicants interviewed and accepted typically have a higher GPA.)
- A minimum grade of C is required on each course accepted for transfer.
- If a course is repeated, both grades are used in calculating the GPA.
- Applicants need a minimum composite percentile score of 40 on the [Pharmacy College Admission Test](#).

Link to PCAT:

<http://pearsonassess.com/haiweb/Cultures/en-US/site/Community/PostSecondary/Products/pcat/pcathome.htm>

YEAR 4

Fall		Spring	
Classes to fulfill major, etc.	15-18 h	Classes to fulfill major, etc.	15-18 h

The application process must begin this year. See Year 3 comments above.

For more information about health-care careers in any of the Pre-professional areas contact:

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