

*Sample Curriculum  
of Courses Required for the  
Bachelor of Science (BS) Degree in Biochemistry*

**Freshman Year**

<u>Semester I</u>			<u>Semester II</u>		
Principles of Chemistry I	4:011	4 s.h.	Principles of Chemistry II	4:012	4 s.h.
Calculus I	22M:025	4 s.h.	Calculus II	22M:026	4 s.h.
Orientation (4 evenings)	99:001	0 s.h.			

*Students may begin research in the Dept. of Biochemistry at any time; please consult your advisor if you are interested and complete the form included as the last page of this pamphlet.*

**Sophomore Year**

<u>Semester I</u>			<u>Semester II</u>		
Principles in Biology	2:010	4 s.h.	Principles in Biology	2:011	4 s.h.
Organic Chemistry I	4:123 (or 121)	3 s.h.	Organic Chemistry II	4:124 (or 122)	3 s.h.
[Introductory Physics I] <sup>1</sup>	29:081	4 s.h.	Organic Chemistry Lab	4:142 (or 141)	3 s.h.

**Junior Year**

<u>Semester I</u>			<u>Semester II</u>		
Biochem. & Mol. Biol. I	99:120	3 s.h.	Biochem. & Mol. Biol. II	99:130	3 s.h.
[Science Elective] <sup>2</sup>		x	Experimental Biochemistry	99:140	4 s.h.
[Introductory Physics II]	29:082	4 s.h.	[Physical Chemistry I] <sup>3</sup>	4:131	3 s.h.

**Summer Session**

Undergraduate Research<sup>4</sup> 99:155 usually 2-3 s.h.

**Senior Year**

<u>Semester I</u>			<u>Semester II</u>		
[Physical Chemistry II] <sup>3</sup>	4:132	3 s.h.	Technical Communication	99:101	1 s.h.
Biophysical Chemistry I <sup>3</sup>	99:241	3 s.h.	Biophysical Chemistry II <sup>3</sup>	99:242	3 s.h.
[Science Elective] <sup>2</sup>		x	[Science Elective] <sup>2</sup>		x
Elective with Research	99:155	x	Elective with Research	99:155	x

<sup>1</sup>Scheduling of courses in brackets [ ] are suggestions only. Some courses are also offered in the summer, which has not been indicated on these sample schedules.

<sup>2</sup>Fifteen (15) s.h. of advanced science electives are required in the B.S. program. Science electives may be taken at any time during the curriculum. Note that 99:115 does not fulfill this requirement, but up to 6 s.h. of 99:155 may be used.

<sup>3</sup>Students in B.S. program are required to take two of the following courses: 4:131, 4:132, 99:241, 99:242.

<sup>4</sup>A total of 6 s.h. of 99:155 are required for honors. The number of semester hours of research, in any given semester, will depend upon arrangements between student and research advisor. Prerequisites are Biochemistry & Molecular Biology I and II (99:120 and 99:130), and Experimental Biochemistry (99:140), at an average grade of B or better and with B- or better in each course.

**Sample Curriculum  
of Courses Required for the  
Bachelor of Arts (BA) Degree in Biochemistry**

**Freshman Year**

<u>Semester I</u>			<u>Semester II</u>		
Principles of Chemistry I	4:011	4 s.h.	Principles of Chemistry II	4:012	4 s.h.
Calculus I	22M:025	4 s.h.	Calculus II	22M:026	4 s.h.
Orientation (4 evenings)	99:001	0 s.h.			

*Students may begin research in the Dept. of Biochemistry at any time; please consult your advisor if you are interested and complete the form included as the last page of this pamphlet.*

**Sophomore Year**

<u>Semester I</u>			<u>Semester II</u>		
Principles in Biology	2:010	4 s.h.	Principles in Biology	2:011	4 s.h.
Organic Chemistry I	4:123 (or 121)	3 s.h.	Organic Chemistry II	4:124 (or 122)	3 s.h.
[College Physics] <sup>1</sup>	29:011	4 s.h.			

**Junior Year**

<u>Semester I</u>			<u>Semester II</u>		
Biochem. & Mol. Biol. I	99:120	3 s.h.	Biochem. & Mol. Biol. II	99:130	3 s.h.
[College Physics]	29:012	4 s.h.	Experimental Biochemistry	99:140	4 s.h.
[Science Elective] <sup>2</sup>			[Physical Chemistry I] <sup>3</sup>	4:131	3 s.h.

**Senior Year**

<u>Semester I</u>			<u>Semester II</u>		
			Technical Communication	99:101	1 s.h.
Biophysical Chemistry I <sup>3</sup>	99:241	3 s.h.	Biophysical Chemistry II <sup>3</sup>	99:242	3 s.h.
[Science Elective] <sup>2</sup>		x	[Science Elective] <sup>2</sup>		x

<sup>1</sup>Scheduling of courses in brackets [ ] are suggestions only. Some courses are also offered in the summer, which has not been indicated on these sample schedules.

<sup>2</sup>Six (6) s.h. of advanced science electives are required in the B.A. program. Science electives may be taken at any time during the curriculum. Note that 99:115 and 99:155 do not fulfill this requirement.

<sup>3</sup>Students in B.A. program are required to take one of the following courses: 4:131, 4:132, 99:241, 99:242.