

Case Western Reserve University  
 Department of Biochemistry  
 Certificate in Experimental Biotechnology Program

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Sample schedule for full-time students

<b>Fall</b>	
BIOC 407 (4)* <i>or</i> elective (3)	Introduction to Biochemistry: From Molecules To Medical Science
BIOC 500** (1)	Biotechnology Laboratory: Molecular Biology Basics
BIOC 501 (3)	Biochemical and Cellular Techniques for Biotechnology
BIOC 511 (1)	Practice and Professionalism in Biotechnology
<b>Spring</b>	
BIOC 408 (4)* <i>or</i> elective (3)	Molecular Biology
BIOC 502A (2)	Biotechnology Laboratory: Molecular Biology and Biochemical Techniques
BIOC 502B (2)	Biotechnology Laboratory: Eukaryotic Molecular and Cellular Biology
BIOC 502C (1)	Biotechnology Laboratory: Mass Spectrometry Techniques
<b>7-9 units in each semester. 15-18 units total.</b>	

\*Students who have taken equivalent courses at other institutions can substitute other Biochemistry courses (BIOC 412, 434, 450) or suitable electives offered by other programs.

\*\* Students may be excused from BIOC 500 if they have taken an equivalent course elsewhere or have learned the material covered in this course through hands-on experience.

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Sample Schedule for part-time students

<b>Year 1</b>	
<b>Fall</b>	
BIOC 500** (1)	Biotechnology Laboratory: Molecular Biology Basics
BIOC 501 (3)	Biochemical and Cellular Techniques for Biotechnology
BIOC 511 (1)	Practice and Professionalism in Biotechnology
<b>Spring</b>	
BIOC 502A (2)	Biotechnology Laboratory: Molecular Biology and Biochemical Techniques
BIOC 502C (1)	Biotechnology Laboratory: Mass Spectrometry Techniques
<b>Year Total: 4-5 units Fall, 3 units Spring</b>	
<b>Year 2</b>	
<b>Fall</b>	
BIOC 407 (4)* <i>or</i> elective (3)	Introduction to Biochemistry: From Molecules To Medical Science
<b>Spring</b>	
BIOC 502B (2)	Biotechnology Laboratory: Eukaryotic Molecular and Cellular Biology
BIOC 408 (4)* <i>or</i> elective (3)	Molecular Biology
<b>Year Total: 3-4 units Fall, 5-6 units spring</b>	
<b>Total: 15 - 18</b>	

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